



Open Space Signage Standards

July 2016

KOLANO design
6026 Centre Avenue
Pittsburgh, Pennsylvania 15206-3921
412.661.9000
www.kolano.com

Acknowledgments

Project Manager

Josh Lippert, ASLA
Senior Environmental Planner

Advisory Committee

Department of City Planning

Raymond Gastil, AICP
Director

Andrew Dash, AICP
Assistant Director

Department of Parks and Recreation

Jim Griffin
Director

Jamie Beechey
Assistant Director

Department of Public Works

Mike Gable
Director

Tom Paulin
Superintendent of Park

Bonnie West
Administrator

Daniel Buczynski
Sign Shop

Partner Organizations

Friends of the Riverfront

Jeff McCauley
Director of Stewardship

Mount Washington Community Development Corporation (MWDC)

Kathryn Hunninen
Park Development & Conservation Director

Pittsburgh Parks Conservancy

Susan Rademacher
Parks Curator

Western Pennsylvania Conservancy

Gavin Deming
Community Specialist

1	Introduction				
	Introduction	1.1			
	Inventory/Analysis	1.2			
	Open Space Types	1.4			
	Process Flowcharts	1.7			
2	Design Standards				
	Sign Panels	2.1			
	Fonts	2.2			
	Colors	2.3			
	Symbols	2.4			
	Directional Symbols	2.5			
	Trail Symbols	2.6			
	Logos	2.7			
	Maps	2.8			
	Sign Messages	2.9			
3	Sign Types				
	Sign Families	3.1			
	Boundary	3.3			
	Entry	3.4			
	Amenity	3.7			
	Interpretive	3.8			
	Trail Markers	3.9			
	Vacant Lots & Public Space	3.10			
	Tree Markers	3.11			
	Temporary Signs	3.12			
	Custom Sign Layouts	3.13			
4	Sign Construction Details				
	Single Post Details		4.1		
	Double Post Details		4.3		
	Post Foundation Details		4.5		
	Wall Mounting Details		4.6		
	Fence Mounting Details		4.7		
	Lamp Post & Telephone Pole Mounting Details		4.8		
	Wood Post Mounting Details		4.10		
	Hardware Details		4.12		
5	Sign Maintenance				
	Sign Maintenance Standards		5.1		

Introduction

Pittsburgh is home to a wide variety of parks and open spaces, ranging from expansive regional parks to neighborhood playgrounds and ballfields. While these open spaces are assets for the city, not all of them are well-used or well-known. This presents a challenge to the City to determine how to bring more awareness and activity to these areas.

The Open Space Signage Plan is a recommendation of the Open Space Plan (the City's Open Space, Parks, and Recreation Plan), which was adopted in July 2013. During the public engagement process, it was found community members desired better connectivity and a more consistent identity for their parks and open spaces. Currently, community and neighborhood parks have a wide variety of signage types with little to no consistency between them. This lack of a consistent design standard makes it hard to identify areas as city parks.

It is the goal of this project to create a unified identity for parks and open space across the city through the use of consistent sign design and language. By creating a unified sign system we hope to draw attention to these areas, identifying them as part of a larger system, improving the user's sense of place, and encouraging the community to take ownership of their open spaces.



Existing Greenway Sign



Existing Community Park Sign









Existing Neighborhood Park Sign

Intended Audience




These standards are intended primarily for internal use by the City of Pittsburgh departments of Parks and Recreation, Planning, and Public Works. It will be particularly relevant to operations within Public Works parks division, as well as within other divisions/departments working in City open spaces that relate to signage. City partners (non-profits, community based organizations, and stewards) may also use the standards as a resource to work with City Planning to develop, fabricate, and implement these standards in open spaces that the partners have agreements with the City to steward.



Inventory Analysis

The City of Pittsburgh's open space signage inventory (summer 2014) documented signs in nearly all of our parks. Below are the overall comments, observations and recommendations.

Comment/ Observation	Example	Recommendation	Comment/ Observation	Example	Recommendation
<p>Character Wood routed signs are not indicative of an urban park.</p>		<p>A more considered design approach would significantly improve the aesthetic appearance of the parks in respect to our urban setting and natural features.</p>	<p>Cost Regional Park Signage Guidelines have become costly and not feasible for the entirety of the open space system in the City.</p>		<p>Consider the cost of materials and fabrication when designing the new system.</p>
<p>Clutter Too many signs with different messages in one place.</p>		<p>Need to consolidate and centralize signs into multi-purpose signs.</p>	<p>Hierarchy Size/scale of signs relative to one another in terms of messaging and content.</p>		<p>Consider content and messages and create a logical hierarchy to convey the various messages.</p>
<p>Communication Wordy signs with too many regulations and negative messaging. Lack of language accessibility.</p>		<p>Use icons to reduce amount of text & increase language accessibility. Use positive messaging to promote correct ways of using the park.</p>	<p>Inconsistency Same general message illustrated or written in different ways.</p>		<p>Standardize messaging and icons to create a consistent message system wide.</p>

Inventory Analysis Cont.

Comment/ Observation	Example	Recommendation
<p>Maintenance Freestanding or pole signs can often increase maintenance in terms of mowing/weed eating around the base.</p>		<p>Consider materials, placement, and fabrication into the design to reduce the manpower needed to maintain the system.</p>
<p>Placement Lack of height standard for placement in terms of pedestrian & vehicular visibility.</p>		<p>Consider ADA standards as well as alternative structural designs to maintain clear sight lines.</p>
<p>Quality Replace signs that are in poor repair or covered in graffiti.</p>		<p>Consider alternate materials with longer lifespans, lower maintenance costs and less susceptibility to damage.</p>

Comment/ Observation	Example	Recommendation
<p>Scale Community vs. Neighborhood scale parks.</p>		<p>Consider the size, location, and character of the different types of open space for appropriate scale.</p>
<p>Other Lack of directional signage (maps, arrows, etc.) Potential to add functionality to signs to promote open space as well as provide direction to park users. Lack of identifying these open spaces as City of Pittsburgh spaces. Potential to create an identity that cohesively ties the City's open spaces together. Lack of trail signage: Potential to promote greater uses of open spaces through naming, and signing trail as well as providing distance and difficulty information. Underutilized/blank back side of signs: Potential to incorporate art or map of nearby open spaces to the blank reverse panel of signs to utilize all surfaces as well as deter from graffiti.</p>		

Open Space Types

The City of Pittsburgh’s public open space system contains more than 3,390 acres of land, constituting 10% of the city’s land base. Pittsburgh’s open space system includes lands deliberately reserved for public purposes and to benefit residents and visitors, and to protect environmentally sensitive areas and natural systems. The open space system incorporates hillsides, natural resource lands, and developed lands containing parks, sports fields, swimming pools, buildings, and an extensive variety of built recreation features and amenities.

The following table summarizes each open space type, and begins to define the best approach to signage for each type.

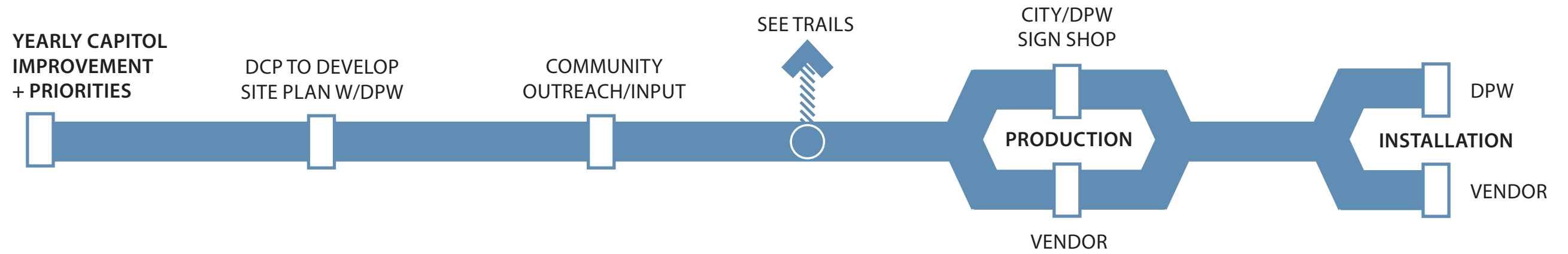


Open Space	Definition	Acres/ # of facilities	Recommendation
Regional Park	Regional Parks are the signature open spaces of the city. These sites are amongst the largest park sites and draw visitors from throughout Pittsburgh and beyond. Each park has a unique identity shaped by its cultural resources, historic landscape, natural features, and recreational amenities. Regional parks are large enough that they can contain multiple spaces that in some instances function as “parks within parks.”	Approx. 1,972 acres 5 parks	Note that the 2005/2010 master design guidelines remain the city standard for regional parks, and that the open space signage standards 2016 do not apply.
Community Park	Community Parks are intended to serve multiple neighborhoods. These parks can vary in size depending on their setting and facilities, and include a mix of active and passive recreation features. Competitive quality sports fields, indoor or outdoor swimming pools, multi-purpose recreation centers, and reservable picnic shelters are common features in community parks. This type of park also typically includes those features found in neighborhood parks. Transit access and support amenities, such as restrooms are important components of community parks.	Approx. 561 acres 21 Parks	Community Parks would benefit from pedestrian and vehicular scaled signs. Entry points should contain park name, maps, and directional information. Specific amenities should have additional signs and regulations. Additional, trail markers should be used for direction and mileage. Informational signs should be used for historical/ educational points along the riverfronts.
Neighborhood Park	Neighborhood Parks are locally-oriented parks that provide residents with nearby access to the outdoors and recreation. Neighborhood parks typically include features such as picnic areas, playgrounds, open lawn, courts, and walking paths. This type of park is intended for casual, shorter duration use by those within walking or biking distance. Neighborhood parks can be located in residential areas, near work places or in business districts, and should provide recreation opportunities appropriate to their setting.	Approx. 330 acres 106 parks	Neighborhood Parks would benefit from pedestrian scaled signs that are not dominant. Entry points should contain park name and regulatory information and be the primary signs. Smaller amenity signs could be used for specific park facilities if needed.
Riverfront Park	Riverfront Parks are called out as a unique classification because they focus on proximity or access to one or more of Pittsburgh’s rivers. Some of these riverfront sites may also serve neighborhood, community, or regional park functions.	Approximately 51 acres (city-maintained)	Riverfront Parks would benefit from pedestrian scaled signs that fit their natural character. Entry points or trail heads should have a sign that identifies the space, provides regulatory information, and directional information. Additional, trail markers should be used for direction and mileage. Informational signs should be used for historical/educational points along the riverfronts.
Greenway	Greenways are typically steeply sloped, unbuildable land that is consolidated for the purpose of protecting hillsides and preserving passive open space resources for uses such as trails and overlooks.	Approx. 550 acres 12 designated	Greenways would benefit from pedestrian scaled signs that fit their natural character. Entry points or trail heads should have a sign that identifies the space, provides regulatory information, and directional information. Additional subtle trail markers should be used for direction, mileage, naming, and difficulty.

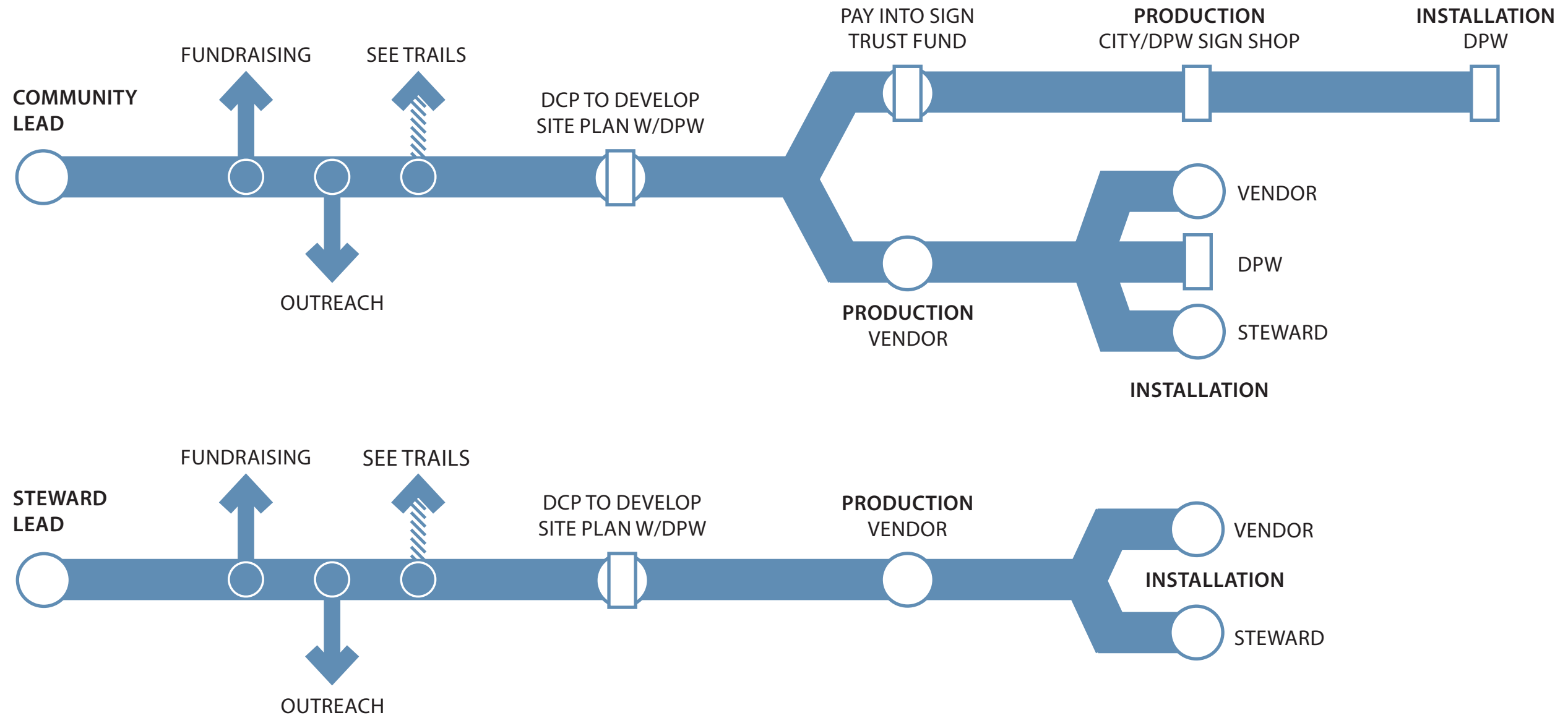
Open Space	Definition	Acres/ # of facilities	Recommendation
Privately-owned Open Space	As part of Pittsburgh's Downtown development and Specialty Planned District requirements, plazas and open space are required through the Urban Open Space Requirements found in section 910.01.C.3 of the zoning code. These spaces are accessible to the public, but are privately constructed and maintained.	N/A	Privately-owned Open Space would benefit from pedestrian scaled signs that are not dominant. Only major entry points should have a marker that denotes this space as publicly accessible at a specified time as well as potentially reference the code section that makes this space public. A higher quality material should be explored for these spaces.
Vacant Lot(s) (city owned)	The Adopt-A-Lot Program is a City program designed to transform blighted City-owned vacant lots (often acquired as a result of tax delinquency) into community assets. Though this program does not specify a long-term future for sites, many Adopt-A-Lot efforts result in community stewardship of neighborhood lots and the creation of informal, undesignated open space for local use.	Approx. 7,200 lots (city-owned)	Vacant lots would benefit from "temporary" pedestrian scaled signs that are not dominant. Only one sign should be placed at the main entrance or adjacent to the sidewalk to signify this space as a project. Should not use the words "park" or "parklet" in their names, but can acknowledge the license or lease holder.
Multi-Use Trails	Multi-use trails are hard-surfaced, off-street paths used by pedestrians and bicyclists, and can be destinations for exercise and recreation.	Riverfront Parks Community Parks	Should be shown on map. Trail markers should be used for direction, mileage, naming, and difficulty.
Pedestrian Trails	Pedestrian trails are off-street trails that can be hard or soft-surfaced. Examples of soft surfaces include soil, crushed rock, and wood chips. Some soft surfaces do not provide accessibility for people with disabilities, but are preferable for some recreation activities, such as running and hiking.	Community Parks Greenways	Should be shown on map. Trail markers should be used for direction, mileage, naming, and difficulty.
Park Pathways	Park pathways are the paved or soft-surfaced paths contained within parks. At minimum, each park should have a paved pathway providing access to all elements on the site for compliance with the Americans with Disabilities Act (ADA). Most of Pittsburgh's parks have at least a small park pathway connecting a playground or court to the sidewalk. Only a few parks have looped pathway systems, a desirable recreation feature given the high level of interest and participation in walking for exercise.	Community Parks Neighborhood Parks	For Community Parks, ADA accessibility should be shown on maps For parks with looped pathway systems use trail markers for direction, mileage, naming, and difficulty.
Mountain Bike Trails	Mountain bike trails are dedicated trails for mountain biking. They can be built using a range of surfaces. Off-street mountain bike trails are typically narrow, single track trails composed of natural/compacted earth. Reducing user conflicts is especially important when designing natural surface trails for use by cyclists and pedestrians. Trail sections should be designed to prevent erosion and reduce speed, especially around corners or at trail intersections.	Community Parks Greenways	Should be shown on map as mountain bike trails. Trail markers should be used for direction, mileage, naming, and difficulty.

Implementation Process

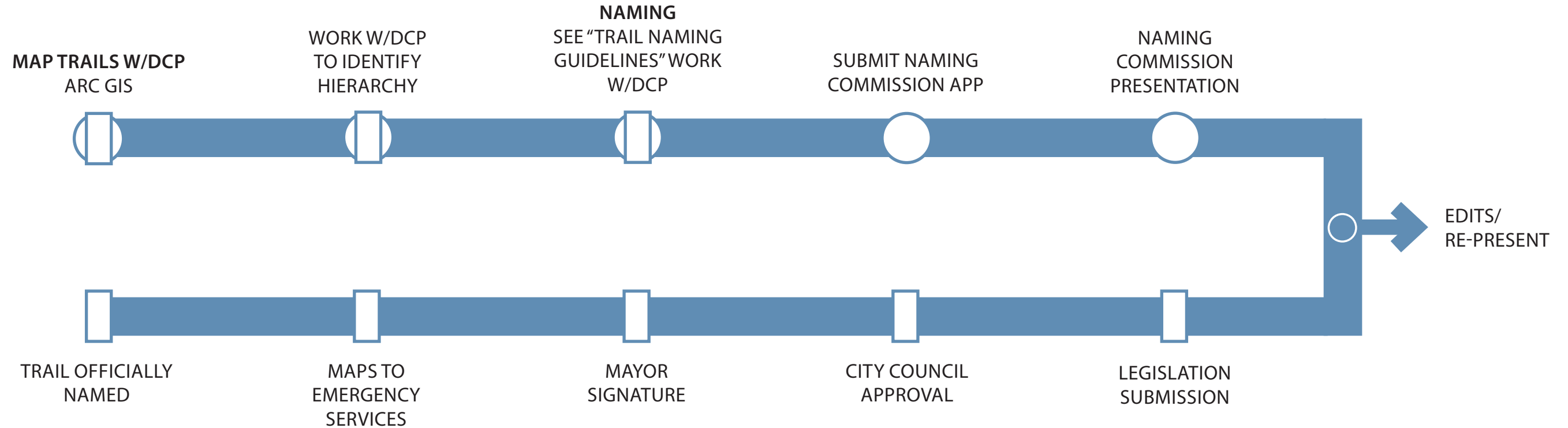
COMMUNITY AND NEIGHBORHOOD PARKS



GREENWAYS / ADOPT-A-LOT



Process of Trail Naming



KEY:

DCP - DEPARTMENT OF CITY PLANNING

DPW - DEPARTMENT OF PUBLIC WORKS

○ STEWARD/ COMMUNITY INPUT
□ CITY INPUT

◐ JOINT INPUT
↑ SUB-STEP

SEE TRAILS
↑ IF TRAILS EXIST IN THE PARK, SEE THE TRAIL CHART ABOVE

Trail Naming Guidelines

Definition: Trail – contained within a city designated open space (park and/or greenway) and are considered multi-use trails, pedestrians trails, park pathways, and mountain bike trails.

Background:

- a. Existing Names
 - i. If physically signed by the City, adopt existing name using the “trail” suffix. Existing duplicate or similar sounding trail names within the open space system should be changed to ensure efficiency of the emergency response system.
- b. Proposed Names
 - i. Prioritization to follow this order:
 1. Regional Parks
 2. Riverfront Parks
 3. Community Parks
 4. Greenways
 5. Neighborhood Parks

Naming Conventions:

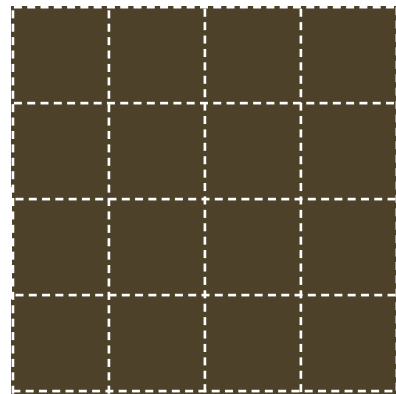
- a. Naming
 - ii. Easy to pronounce/spell
 - iii. Limit of 60 characters including spaces
 - iv. Each trail shall have the same name throughout its entire length.
 - v. Must not duplicate, or be similar sounding to any existing trail names in the City.
 - vi. Refrain from Street duplication
 - 1. Allowed if Street is in proximity to Open Space (proximity – defined as adjacent neighborhood(s))
 - vii. Existing duplicate or similar sounding trail names should be changed to ensure efficiency of the emergency response system.
 - viii. Do not use any punctuation such as, periods, commas, hyphens, apostrophes, or dashes in the name.
 - ix. Prohibit using numbers as part of the trail name.
- x. Prohibit the use of suffixes, directional suffixes, prefixes, and directional prefixes as trail names. (ex: East Trail, West North Trail)
- xi. Prohibit single letter trail names
- xii. Prohibit the use of any suffix except “trail”
- xiii. Trail names must be spelled out completely. Do not abbreviate any part of the trail name. (ex: Martin Luther King Trail, not MLK Trail)
- xiv. Address/geo-locate in 0.2 mile intervals, including trailheads
- xv. Mile mark any trail over 2 miles
- xvi. Trailhead(s), not internal to an Open Space, but adjacent to a City Right-of-way must utilize the ROW name then suffix “trail and identify Open Space Name.
- xvii. Trail names after individuals; individual must be deceased at least three years
- b. Renaming
 - i. Discouraged, except for an emergency response system reason.

Sign Panels

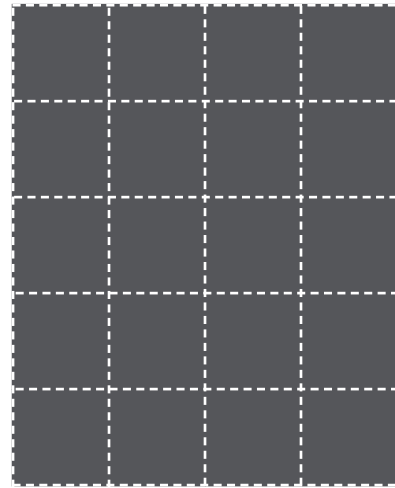
All park signs are created based on 4" x 4" panel sizes.

The panels are sized to fit together into a modular system to create different sign types.

See Sign Types section for content information.



Vacant Lots
16" x 16"



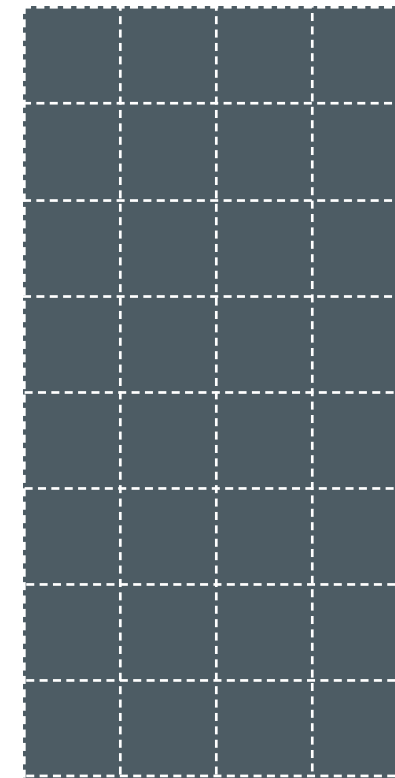
Privately-Owned Open Space
16" x 20"



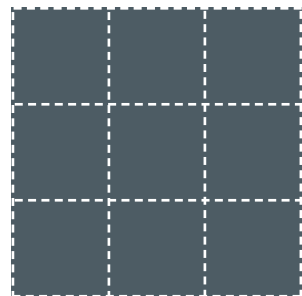
Mile Marker
4" x 4"



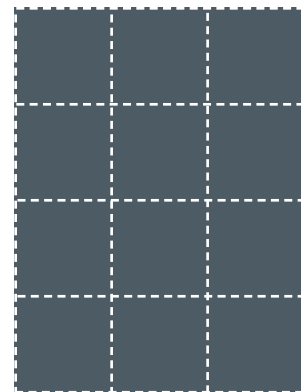
Trail Marker
4" x 28"



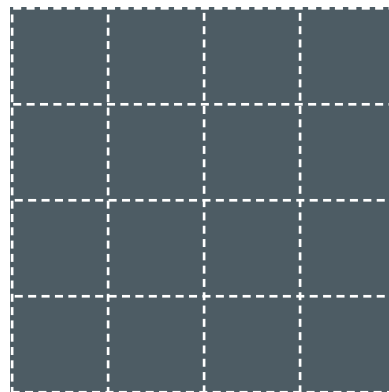
Trail Entry
16" x 32"



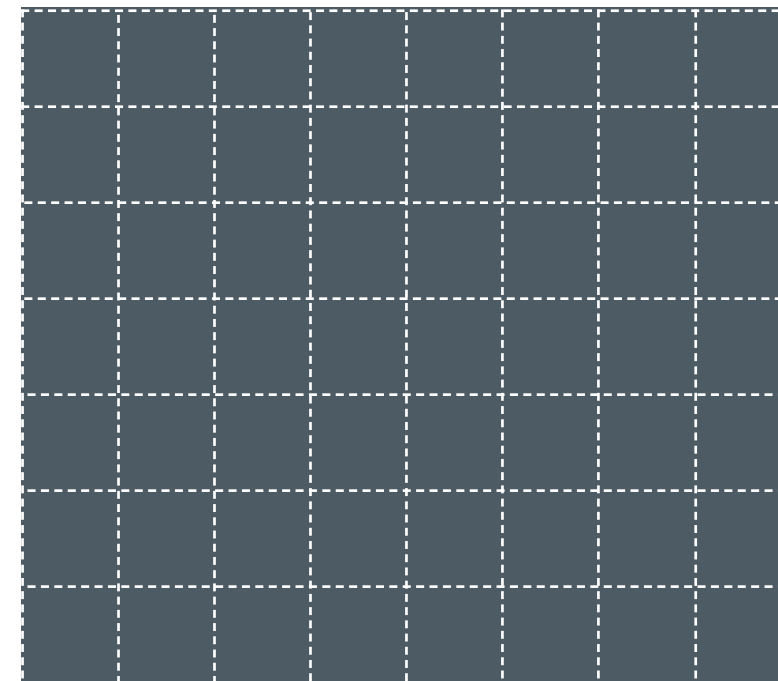
Ammenity (Small)
12" x 12"



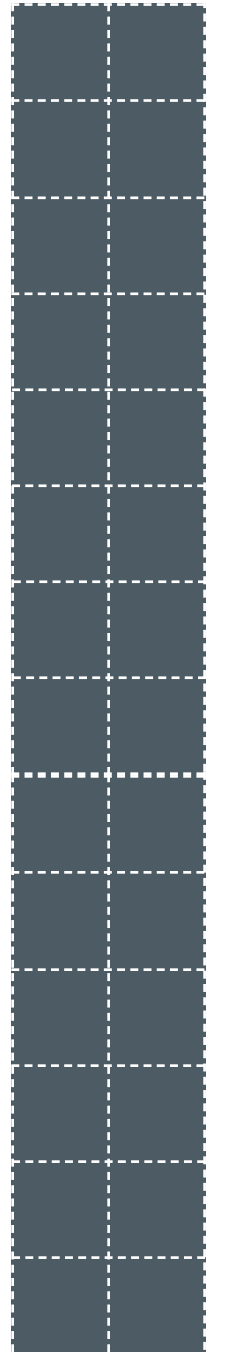
Ammenity (Medium)
12" x 16"



Ammenity (Large)
16" x 16"

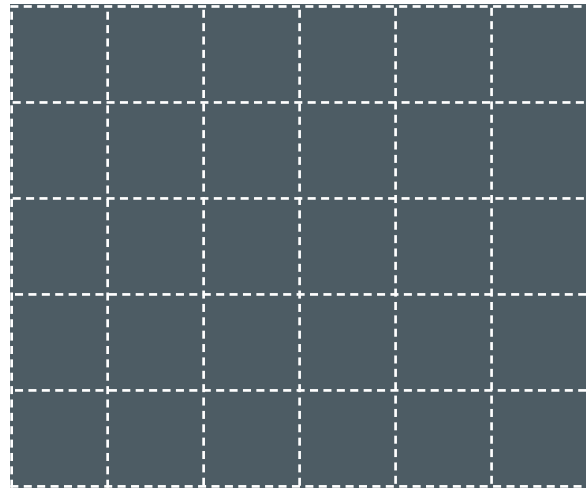


Interpretive
32" x 28"

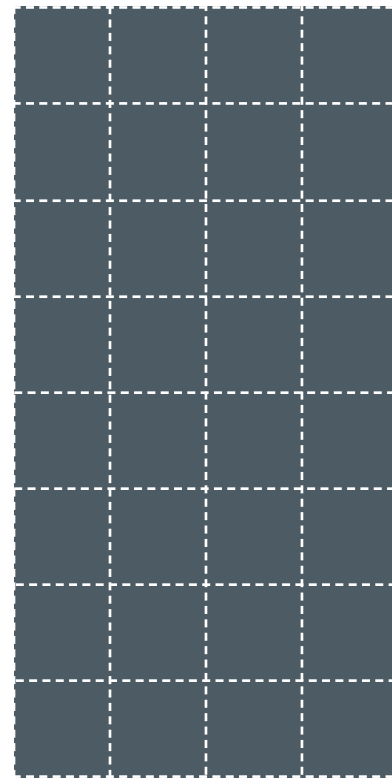


Boundary
8" x 60"

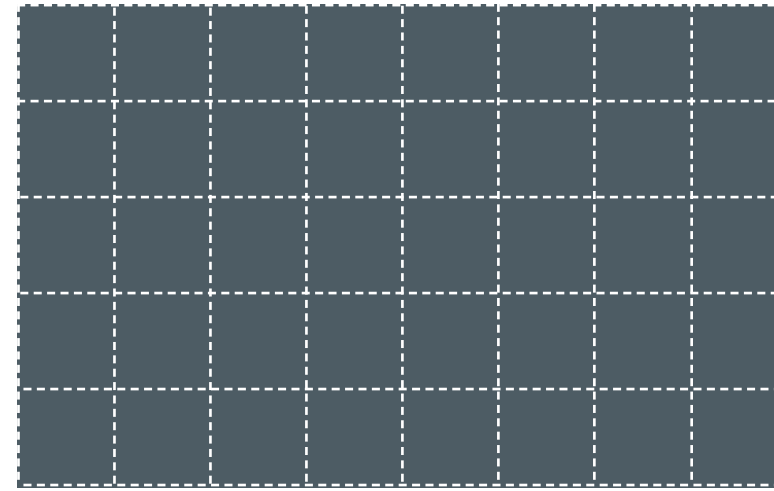
Material Sizes Cont.



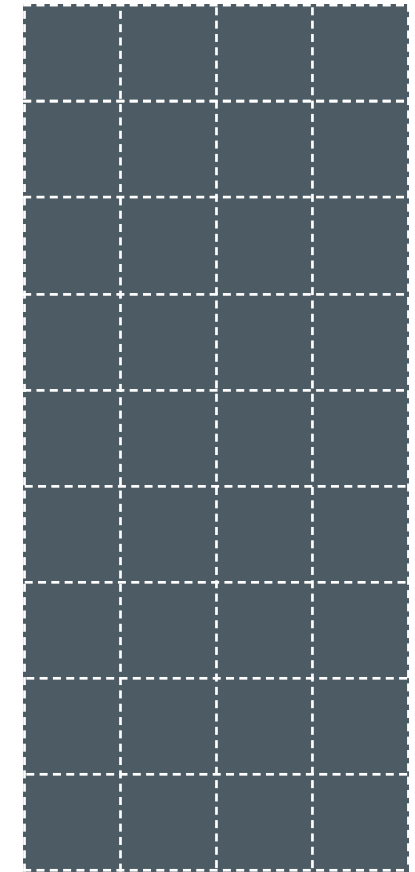
**Neighborhood Park Entry
Without Amenities**
24" x 20"



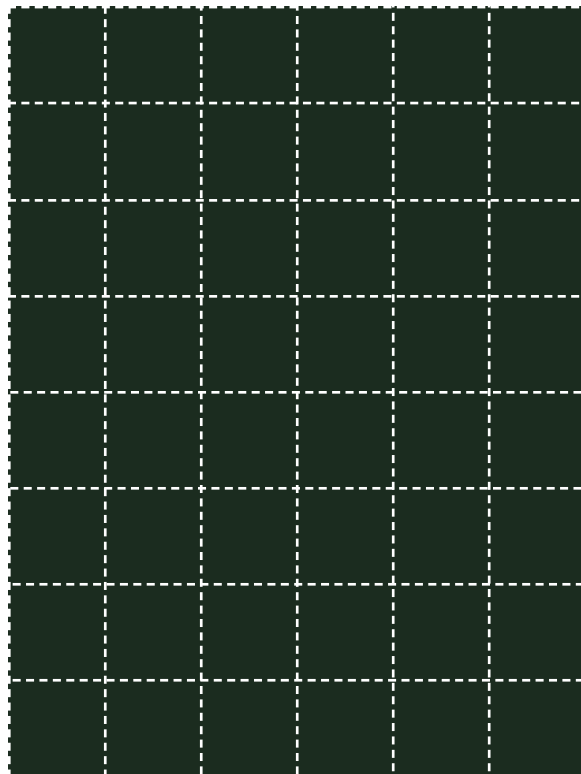
**Neighborhood Park Entry
Without Amenities**
16" x 32"



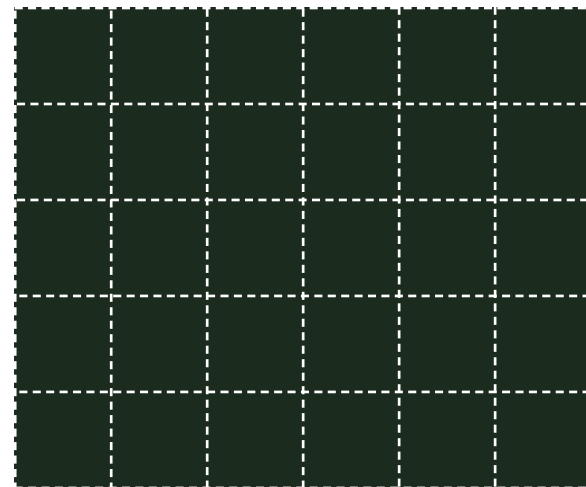
**Neighborhood Park Entry
With Amenities**
32" x 20"



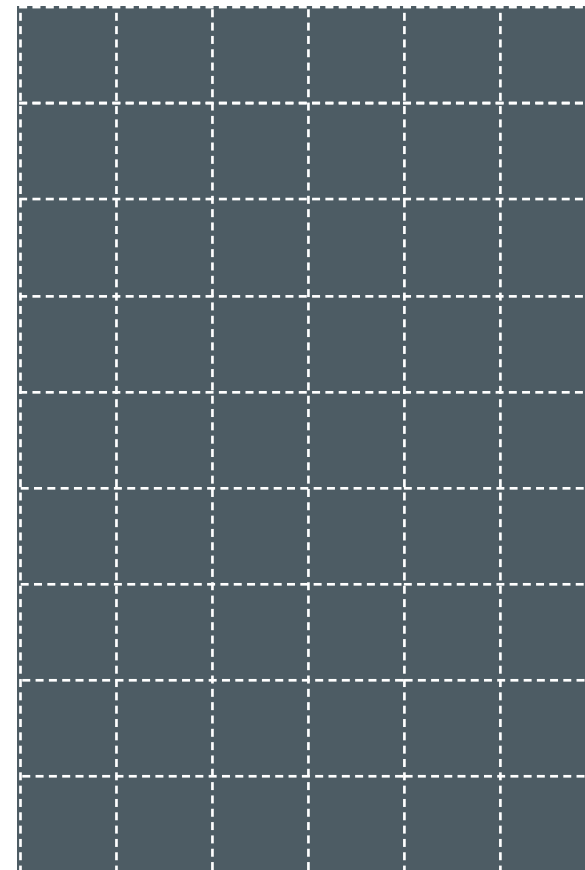
**Neighborhood Park Entry
With Amenities**
16" x 36"



**Greenway Entry
With Map**
24" x 32"



**Greenway Entry
Without Map**
24" x 20"



Community Park Entry
24" x 36"



Community Park Entry
40" x 20"

Regular

Use regular weight font for body text, lists, etc.

Century Gothic Regular

abcdefghijklmnopqrstvwxyz
ABCDEFGHIJKLMNPOQRSTUVWXYZ
1234567890 \$&%!?

Century Gothic Regular Italic

abcdefghijklmnopqrstvwxyz
ABCDEFGHIJKLMNPOQRSTUVWXYZ
1234567890 \$&%!?

Bold

Use bold weight font for place names, directional information and to call attention to particular words/phrases.

Century Gothic Bold

abcdefghijklmnopqrstvwxyz
ABCDEFGHIJKLMNPOQRSTUVWXYZ
1234567890 \$&%!?

Century Gothic Bold Italic

abcdefghijklmnopqrstvwxyz
ABCDEFGHIJKLMNPOQRSTUVWXYZ
1234567890 \$&%!?


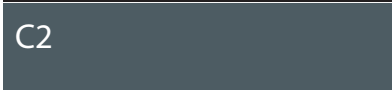
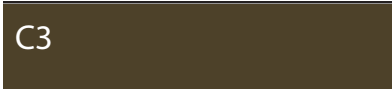

Letter Height

Text should be no smaller than 1/8" so that it can be read by all park users. Use the intended reading distance from the sign to determine letter heights of signs. See the diagram below for a guide.

A general rule is a 1" tall letter can be read from 50' away.

Use this formula to determine letter heights.
 $100' \text{ (distance from sign)} \div 50 = 2'' \text{ minimum letter height}$



























Color Code & Swatch	PMS Match	Paint Match	Opaque Vinyl	CMYK <small>*not recommended</small>	Type of Sign	Type of Open Space
C1  White			*3M 77225-10 White	C 0 M 0 Y 0 K 0	Sign messages Maps	
C2  Shadow Blue	PMS 7545C		*3M 77225-177 Shadow Blue	C 50 M 31 Y 28 K 51		Community Parks Neighborhood Parks Riverfront Parks
C3  Brown	*PMS 448 C	GG 320 G4	N/A	C 55 M 58 Y 81 K 51		Vacant Lots
C4  Dark Gray	*PMS Cool Gray 11 C		3M 7725-41 Dark Gray	C 65 M 57 Y 52 K 29		Privately-owned Open Space
C5  Bottle Green	*PMS 3308 C		*3M 7725--276 Bottle Green	C 68 M 45 Y 70 K 76		Greenways

***Color specifications in bold font represent the master color.
Any alternate ways of reproducing the color should be matched to a physical sample of the color.**

Symbols




















Activities

 Bikes	 No Bikes	 Running Cross Country	 No Running
 Mountain Bikes	 No Mountain Bikes	 Ice Skating	 No Rollerblading
 Skate Park	 No Skateboarding	 X-country Skiing	 Basketball
 Motorized Vehicles	 No Motorized Vehicles	 Hiking	 Disk Golf Course
 Swimming	 No Swimming	 Horseback Riding	 Tennis Court
 Fishing	 No Fishing	 Playground	 Spray Park

Amenities

 Unisex Accessible Restroom	 Women Non-Accessible Restroom	 Picnic Tables	 Accessible
 Family Accessible Restroom	 Men Non-Accessible Restroom	 Boat Launch	 Grill
 Women Accessible Restroom	 Fountain	 Trash	 Community Garden
 Men Accessible Restroom	 Telephone	 Shelter	 Park Building
 Family Non-Accessible Restroom	 First Aid	 Recycling	 Off Leash Area
 Unisex Non-Accessible Restroom	 Changing Station	 Information	

Regulatory

 Crosswalk	 No Pedestrians	 No Weapons	 No Hunting
 Dogs	 No Dogs	 Warning	
 Keep Dogs On Leash & Clean up waste	 No Camping	 Do Not Feed Birds	
 No Parking	 Parking	 No Food or Drink	
 Do Not Enter/Authorized Only	 No Alcohol	 No Camp Fires	
 No Smoking	 No Glass Containers	 No Drone Aircraft	

Arrows

These arrows have been illustrated specifically for Open Space Pittsburgh Signs.
Do not use other arrow art.

Do not place arrows inside a circle, box or other shape.

6X6 grid provided to show exact composition of approved arrows.

Red dashed square field provided to size arrows on sign layout; do not print dashes on sign face.

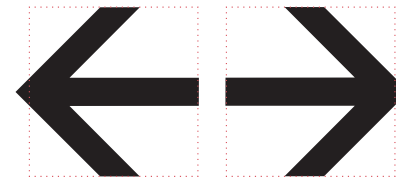
Arrows are only to be placed at 0°, 90° and 45°.

Arrows should never be pointed at text or messages.

On a map or directional sign, only use one arrow per direction.

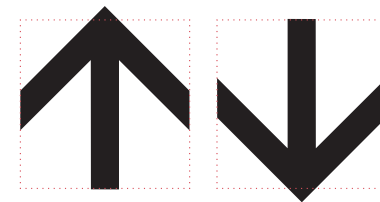
Messages should be justified to their direction. For example, destinations to the right should be right justified on the layout and destinations to the left should be left justified.

Typical Arrow Orientation



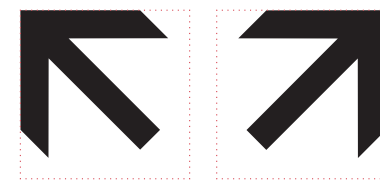
Left

Right



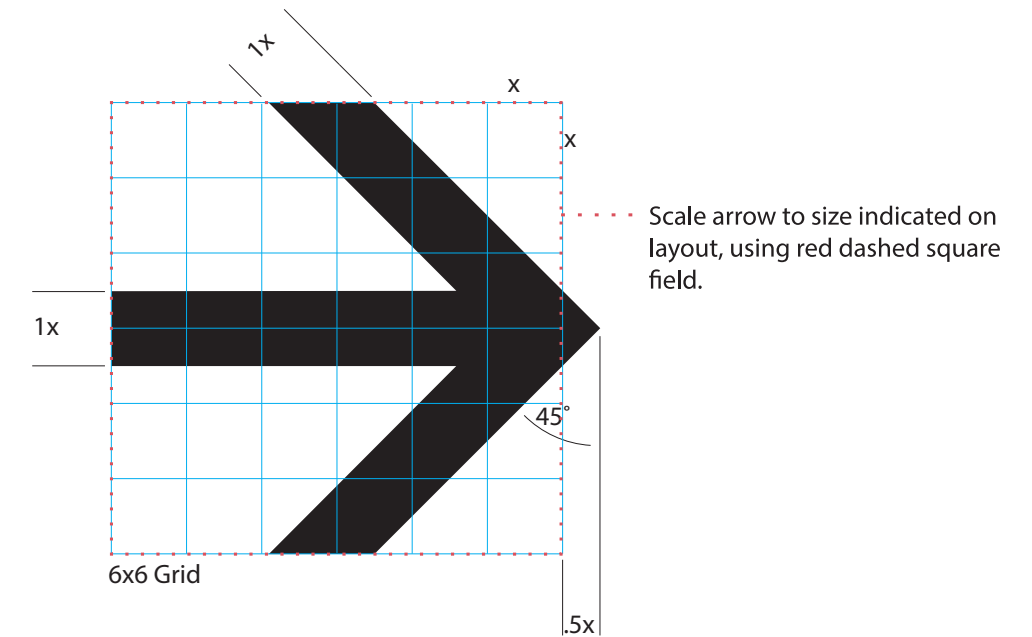
Straight Ahead

Down



Slight Left

Slight Right







Trail Symbols

These icons describe the difficulty level of the trail systems within the parks.

Difficulty level must always be marked by the unique shape of each symbol. The color of the symbol is secondary and does not always have to be used.

For example, easy trails will always be marked by a circle. The circle may be either green, white, or black depending on the application.

Trail Rating

	 ADA Accessible	 Easy	 Intermediate	 Advanced
Definition	Smooth, wide	Mostly smooth, wide	Mostly uneven, variable width	Long rocky segments, possible drops and exposure
Type of Open Space	Park Pathways	Pedestrian Trails, Multi-Use Trails	Pedestrian Trails, Multi-Use Trails	Pedestrian Trails, Mountain Bike Trails
Trail Width	36" or more, with passing space every 1000' if under 60"	36" or more	24" or more	6" or more
Tread Surface	Firm and stable	Firm and stable	Mostly stable with some	Widely variable
Average Trail Grade	5% or less	5% or less	10% or less	20% or less
Obstacles (rocks, tree roots, fallen trees, etc.)	Unavoidable obstacles 1/4" tall or less	Unavoidable obstacles 2" tall or less	Unavoidable obstacles 8" tall or less	Unavoidable obstacles 15" tall or less
Technical Trail Features (TTF)	Unavoidable bridges 36" or wider, with passing space if under 60"	Unavoidable bridges 36" or wider Little to moderate stair climbing	Unavoidable bridges 24" or wider TTF's 2' high or less, width of deck is greater than 1/2 height Moderate to significant stair climbing	May include loose rocks Unavoidable bridges 24" or narrower TTF's 4' high or less, width of deck is less than 1/2 height Lots of significant stair climbing

Logos & Usage Standards

The logos illustrated below may be used on sign faces. No other logos are to appear on sign faces.

If required, partners may be recognized by spelling out their name in Century Gothic Bold text. This regulation is part of the Off Site Advertising section of the City Zoning Code. Partners must have some sort of legal agreement to have their name appear on the sign.

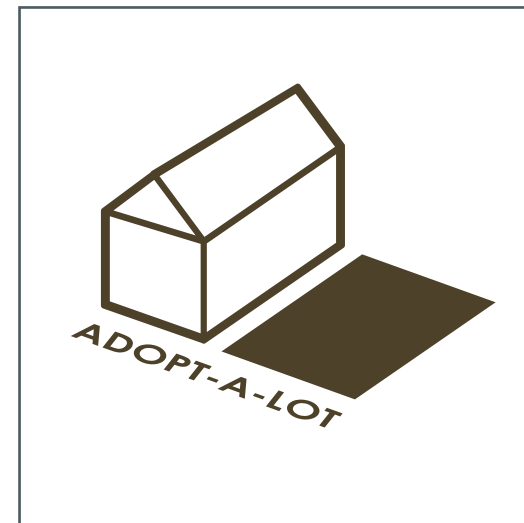
Color: C5 - Bottle Green or C2 - Shadow Blue



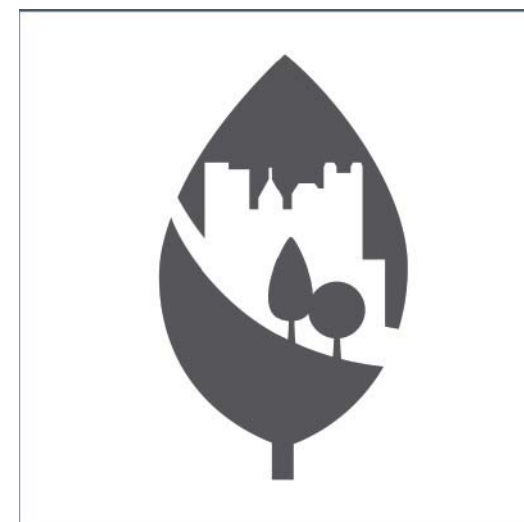
Open Space Logo - Color: C5 - Bottle Green or C2 - Shadow Blue
 May be displayed on 8" x 8" panel
 Use 4" x 4" panel for trail head & trail marker signs



Pittsburgh City Shield - Color: C2 - Shadow Blue, C3 - Brown, C4 - Dark Gray, C5 - Bottle Green
 Do not reproduce larger than 3" tall. - Color C2 (Shadow Blue)



Adopt-A-Lot Logo - Color: C3 Brown
 Minimum size is 4" x 4" panel

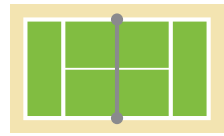


Privately-owned Open Space Logo
 Minimum size is 8" x 8" panel - Color: C4 - Dark Gray

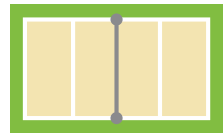
Sports Fields



Soccer Field



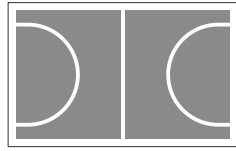
Tennis Court



Volleyball Court



Baseball Field



Basketball Court



Dek Hockey Rink

Trails & Paths



City Steps



ADA Accessible Trail



Easy Trail



Intermediate Trail

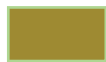


Advanced Trail

Other



Point of Interest



Park Building

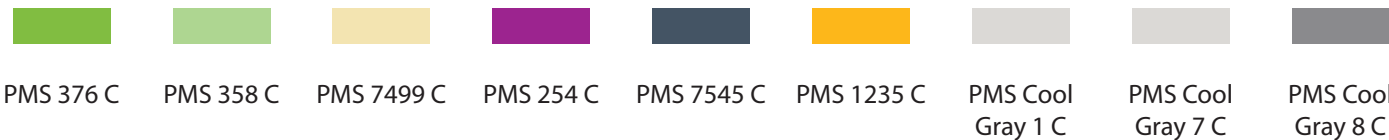


Woodland



Lawn

Colors



Sign Messages

The following types of messages shall be used to meet the different communication goals of Open Space Signage.

Directional

Signs that guide park users to various locations. Place at major intersections & decision points where the final destination is not immediately visible. May be used as trail markers to mark a path to a location. Directional signs should be placed on existing poles, walls, fences or incorporated into other signs when possible.

Identification

Used to identify a space or amenity. Place at main entrances where there is good visibility. Signs may contain the name of the space or amenity.

Informational

Signs that communicates the purpose of an object, or gives them instruction on the use of something. May convey park hours and project partners. Must be attached to paired with an Identification Sign.

Regulatory

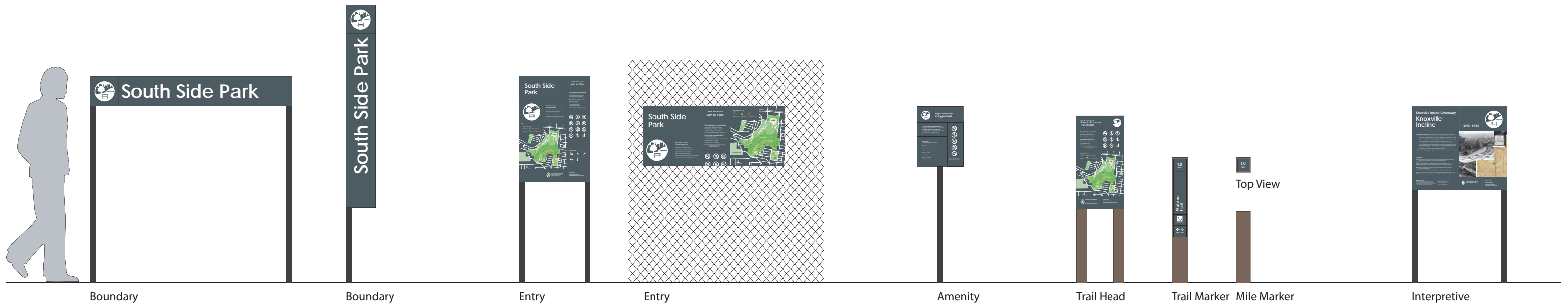
Signs that communicate regulations. Placed in areas where a specific behavior or action is requested or prohibited. Regulatory signs should be placed on existing poles, walls, fences or incorporated into other signs when possible. When possible, use icons instead of text to convey messages.



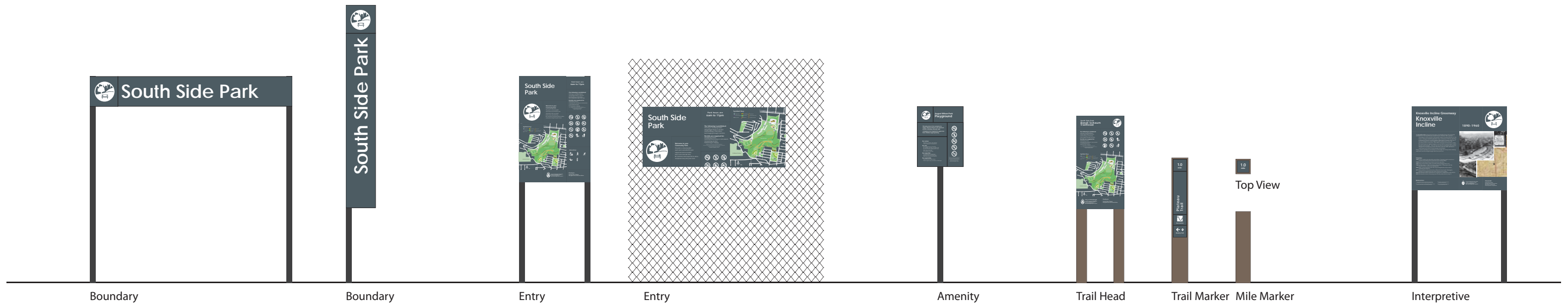
Message Example - Community Park

Sign Families

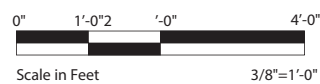
Below are example sign layouts that may be used for identifying the different types of Open Space



Community Park

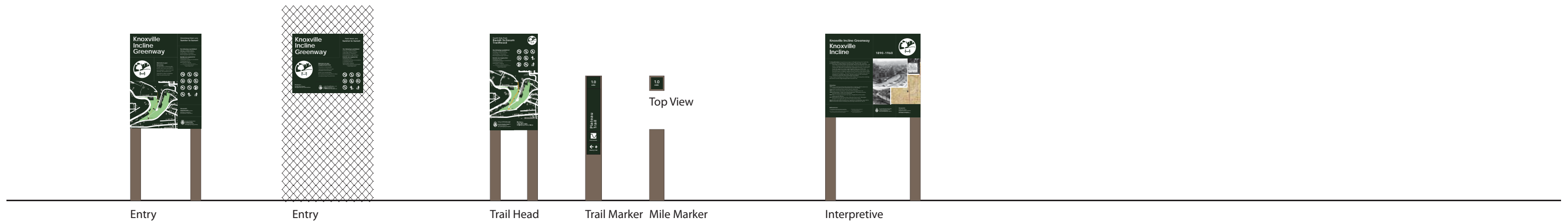


Riverfront Park

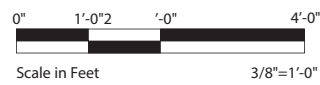




Neighborhood Park



Greenway

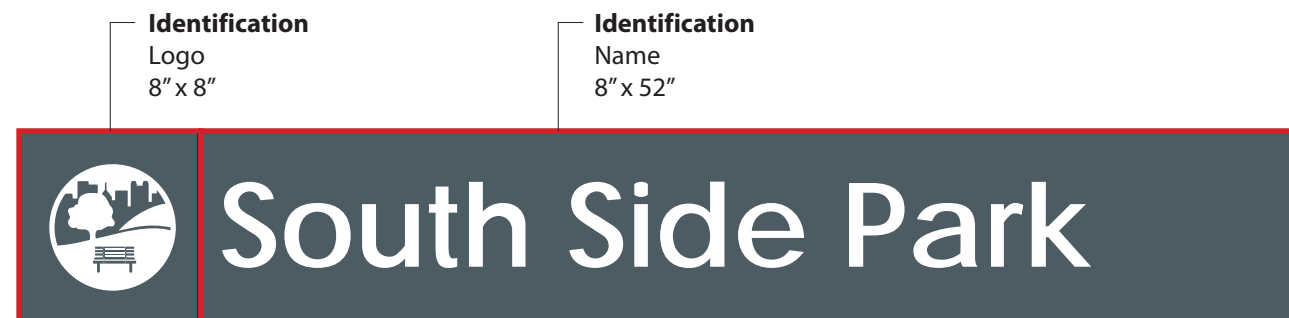


Boundary

Used to identify entrances along major roads adjacent to or through the park.

Use only for:
Community Park
Riverfront Park

Identification:
Open Space Logo
Park Name



Identification
Logo
8" x 8"

Identification
Name
8" x 52"

Boundary
60" x 8"



Identification
Logo
8" x 8"

Identification
Name
8" x 52"

Boundary
8" x 60"

Entry

Used to identify entrances. Placed at main pedestrian entry points.

Blue for all park spaces (Community, Neighborhood, Riverfront)

Green for Greenway.

Identification:

- Park Name
- Open Space Logo

Informational:

- Hours
- Welcome
- Partners (only if one exists)
- City/311

Directional: (only for Community Parks and Greenways)

- Map (optional)
- Arrows (optional)

Regulatory:

- Messages
- Icons

<p>Identification Name 16" x 8"</p>		<p>Informational Hours 8" x 4"</p>
<p>Informational Welcome 8" x 8"</p>		<p>Regulatory Written 8" x 8"</p>
<p>Identification Logo 8" x 8"</p>		<p>Informational Hours 8" x 4"</p>
<p>Directional Map 16" x 16"</p>		<p>Regulatory Icons 8" x 12"</p>
<p>Informational Stewards 8" x 4"</p>	<p>Informational City 311 & 911 8" x 4"</p>	<p>Regulatory Written 8" x 8"</p>
<p>Informational Amenities 8" x 8"</p>		<p>Informational Partners 8" x 4"</p>
<p>Informational City 311 & 911 8" x 4"</p>	<p>Blank 8" x 4"</p>	<p>Informational Partners 8" x 4"</p>

Greenway Entry
24" x 32"

Community Park Entry
24" x 36"

Entry Cont.

<p>Identification Name 16" x 8"</p>	<h1>August Wilson Park</h1>	
<p>Identification Logo 8" x 8"</p>		<p>Welcome to your Neighborhood Park. This park is a shared public open space provided for your enjoyment and recreation. Have a fun and safe time. Be courteous and respectful to others, and please keep the park clean.</p>
<p>Informational Hours 8" x 4"</p>	<p>Park hours are Sunrise to Sunset</p>	
<p>Regulatory Written 8" x 8"</p>	<p>The following is prohibited: Littering or dumping debris Using illegal drugs or alcohol Panhandling or solicitation Rummaging through trash bins</p> <p>Permits are required for: Amplifying sound Commercial activity or concessions Consuming alcohol Performing or rallying</p> <p><small>Chapter 111, City Code of Ordinances, Article 91, Parks and Recreations, from up to 1995. All Federal, Pennsylvania, and City laws are enforced. The park is patrolled by Pittsburgh Police. To report an emergency, call 911.</small></p>	
<p>Informational City 311 & 911 8" x 4"</p>	<p>For more information about Parks, call the 311 Response Center or visit us on the web at http://pittsburghpa.gov/citiparks/</p>	<p>Partners: Pittsburgh Parks Conservancy</p>

Neighborhood Park Entry Without Ammenities
16" x 32"

<p>Identification Name 16" x 8"</p>	<h1>August Wilson Park</h1>	
<p>Identification Logo 8" x 8"</p>		<p>Informational Welcome 8" x 8"</p> <p>Welcome to your Neighborhood Park. This park is a shared public open space provided for your enjoyment and recreation. Have a fun and safe time. Be courteous and respectful to others, and please keep the park clean.</p>
<p>Informational Hours 8" x 4"</p>	<p>Park hours are Sunrise to Sunset</p>	<p>Regulatory Written 8" x 8"</p> <p>The following is prohibited: Littering or dumping debris Using illegal drugs or alcohol Panhandling or solicitation Rummaging through trash bins</p> <p>Permits are required for: Amplifying sound Commercial activity or concessions Consuming alcohol Performing or rallying</p> <p><small>Chapter 111, City Code of Ordinances, Article 91, Parks and Recreations, from up to 1995. All Federal, Pennsylvania, and City laws are enforced. The park is patrolled by Pittsburgh Police. To report an emergency, call 911.</small></p>
<p>Regulatory Written 8" x 12"</p>	<p>Playground: This play area is for everyone to enjoy; however, there is an element of risk in all play. Parents and caregivers are required to supervise their children appropriately.</p> <p>Be curious Wander, wonder, and explore, while staying in the play area.</p> <p>Be safe Be careful when equipment is wet Hot surfaces can burn No dogs or other animals No pushing, shoving, or rough stuff Slide down feet first Use equipment as intended</p> <p>Be respectful Include others and take turns Maintain your personal space Use appropriate language</p> <p>Be responsible Help keep your park clean. Please report any accidents or damage</p>	
<p>Informational City 311 & 911 8" x 4"</p>	<p>For more information about Parks, call the 311 Response Center or visit us on the web at http://pittsburghpa.gov/citiparks/</p>	<p>Partners: Pittsburgh Parks Conservancy</p>

Neighborhood Park Entry With Ammenities
16" x 36"

Entry Cont.

Greenway Entry
24" x 20"

<p>Identification Name 16" x 8"</p>		<p>Informational Hours 8" x 4"</p>
<p>Informational Welcome 8" x 8"</p>		<p>Regulatory Written 8" x 8"</p>
<p>Identification Logo 8" x 8"</p>		<p>Regulatory Icons 8" x 12"</p>
<p>Informational Partners 8" x 4"</p>		<p>Informational City 311 & 911 8" x 4"</p>

Neighborhood Park Entry Without Amenities
24" x 20"

<p>Identification Name 16" x 8"</p>		<p>Informational Hours 8" x 4"</p>
<p>Informational Welcome 8" x 8"</p>		<p>Regulatory Written 8" x 8"</p>
<p>Identification Logo 8" x 8"</p>		<p>Regulatory Icons 8" x 12"</p>
<p>Informational Partners 8" x 4"</p>		<p>Informational City 311 & 911 8" x 4"</p>

Community Park Entry
40" x 20"

<p>Identification Name 16" x 8"</p>		<p>Informational Hours 8" x 4"</p>		<p>Regulatory Written 8" x 8"</p>	
<p>Informational Logo 8" x 8"</p>		<p>Regulatory Icons 8" x 8"</p>			
<p>Informational Partners 8" x 4"</p>		<p>Informational Welcome 8" x 8"</p>		<p>Informational City 311 & 911 8" x 4"</p>	<p>Regulatory Icons 8" x 8"</p>
<p>Informational City 311 & 911 8" x 4"</p>		<p>Regulatory Icons 8" x 8"</p>		<p>Blank 8" x 4"</p>	<p>Directional Arrow 4" x 4"</p>

Neighborhood Park Entry With Amenities
32" x 20"

<p>Identification Name 16" x 8"</p>		<p>Informational Hours 8" x 4"</p>		<p>Regulatory Written 8" x 8"</p>
<p>Informational Welcome 8" x 8"</p>		<p>Regulatory Written 8" x 12"</p>		
<p>Informational Logo 8" x 8"</p>		<p>Regulatory Icons 8" x 8"</p>		
<p>Informational Partners 8" x 4"</p>		<p>Informational City 311 & 911 8" x 4"</p>		

Amenity

These signs are used to identify specific areas or attractions inside an Open Space Facility such as dog parks, tennis courts, playgrounds, etc.

These could be stand alone signs or may be attached to an entry sign:
Use a pedestrian scale sign if the amenity is within walking distance (100 yards or less) or if the amenity can be seen from the sign location.

Identification:

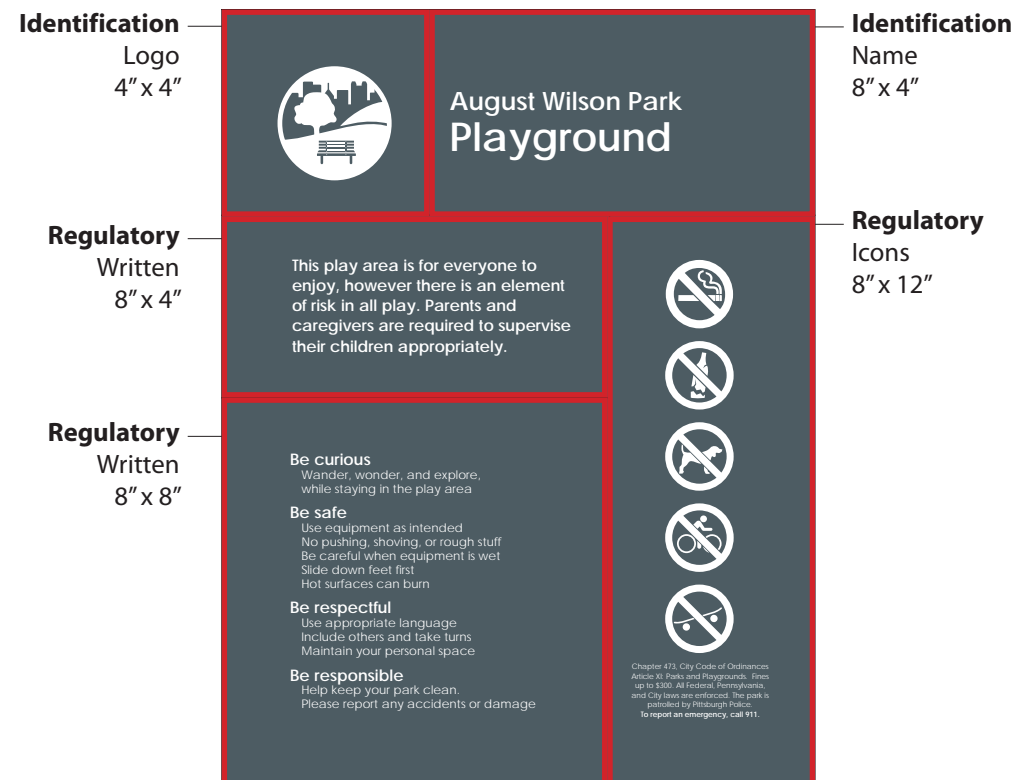
- Park Name (on stand alone amenity sign)
- Amenity Name
- Open Space Logo (on stand alone amenity sign)

Regulatory:

- Messaging
- Icons



Amenity (Small)
12" x 12"



Amenity (Medium)
12" x 16"



Amenity (Large)
16" x 16"

Interpretive

Community Park (blue)
Greenway (green)

These signs are informational, connecting a visitor with the rich history and ecology illustrated on the sign. This sign type will be utilized to supplement structures and amenities

Informational Years 8" x 8"	Informational Name 16" x 8"	Informational Logo 8" x 8"	Informational Years 8" x 8"	Informational Logo 8" x 8"
Informational Description 16" x 8"	Informational Timeline 16" x 8"	Informational References 16" x 8"	Informational Images 16" x 16"	Informational Stewards 8" x 4"
Informational City 311 & 911 8" x 4"				

Identification Name
16" x 8"

Informational Description
16" x 8"

Informational Timeline
16" x 8"

Informational References
16" x 8"

Informational Years
8" x 8"

Informational Logo
8" x 8"

Informational Images
16" x 16"

Informational Stewards
8" x 4"

Informational Name
16" x 8"

Informational Description
16" x 8"

Informational Timeline
16" x 8"

Informational References
16" x 8"

Informational Years 8" x 8"	Informational Name 16" x 8"	Informational Logo 8" x 8"	Informational Years 8" x 8"	Informational Logo 8" x 8"
Informational Description 16" x 8"	Informational Timeline 16" x 8"	Informational References 16" x 8"	Informational Images 16" x 16"	Informational Stewards 8" x 4"
Informational City 311 & 911 8" x 4"				

Informational Name
16" x 8"

Informational Description
16" x 8"

Informational Timeline
16" x 8"

Informational References
16" x 8"

Informational Years
8" x 8"

Informational Logo
8" x 8"

Informational Images
16" x 16"

Informational Stewards
8" x 4"

Informational Name
16" x 8"

Informational Description
16" x 8"

Informational Timeline
16" x 8"

Informational References
16" x 8"

Interpretive
32" x 28"

Interpretive
32" x 28"

Trail Head Marker

Signs that identify the trail entrance displaying the trail name, regulations, map, difficulty legend, stewards, and city information.

Use only for:
Blue - Community Parks
Green - Greenways

Identification:
Trail Name

Informational:
Mileage
Difficulty

Directional:
Arrow (if needed)

Identification Name 12" x 4"		Identification Logo 4" x 4"
Regulatory Written 8" x 8"		Regulatory Icons 8" x 8"
Directional Map 16" x 16"		
Informational City 311 & 911 8" x 4"		Informational Partners 8" x 4"

Trail Entry
16" x 32"

Trail Marker

Signs used as an ID marker along a trail. Use trail markers only along trail circuits and where trails are long. They are to be spaced in even intervals, every 0.2 miles. The trail marker would display mileage, name, difficulty, and possible trail crossing.

Use only for:
Blue - Community Parks
Green - Greenways

Identification:
Trail Name

Informational:
Mileage
Difficulty

Directional:
Arrow (if needed)

1.0 mile	Informational Mileage 4" x 4"
Plateau Trail	Identification Trail Name 4" x 16"
 Intermediate	Informational Difficulty 4" x 4"
 Quarry Trail	Directional Arrow 4" x 4"

Trail Marker
4" x 28"

Mile Marker

Signs that identify distance along a trail. They are to be placed in even intervals, every 0.2 miles.

Use only for:
Blue - Community Parks
Green - Greenways

Informational:
Mileage

1.0 mile	Informational Mileage 4" x 4"
-------------	--

Mile Marker
4" x 4"

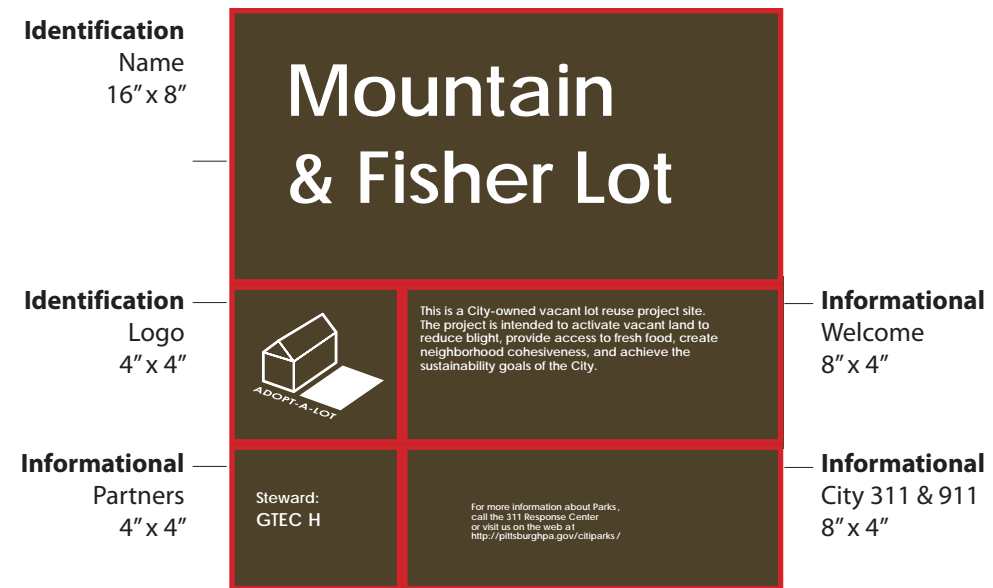
Vacant Lot

To be printed on 1/4" thick gatorboard or other plastic material by steward.

Sign color to be PMS 448C brown.

Century Gothic font family

May be attached to fence, wall or post.



Vacant Lot
16" x 16"

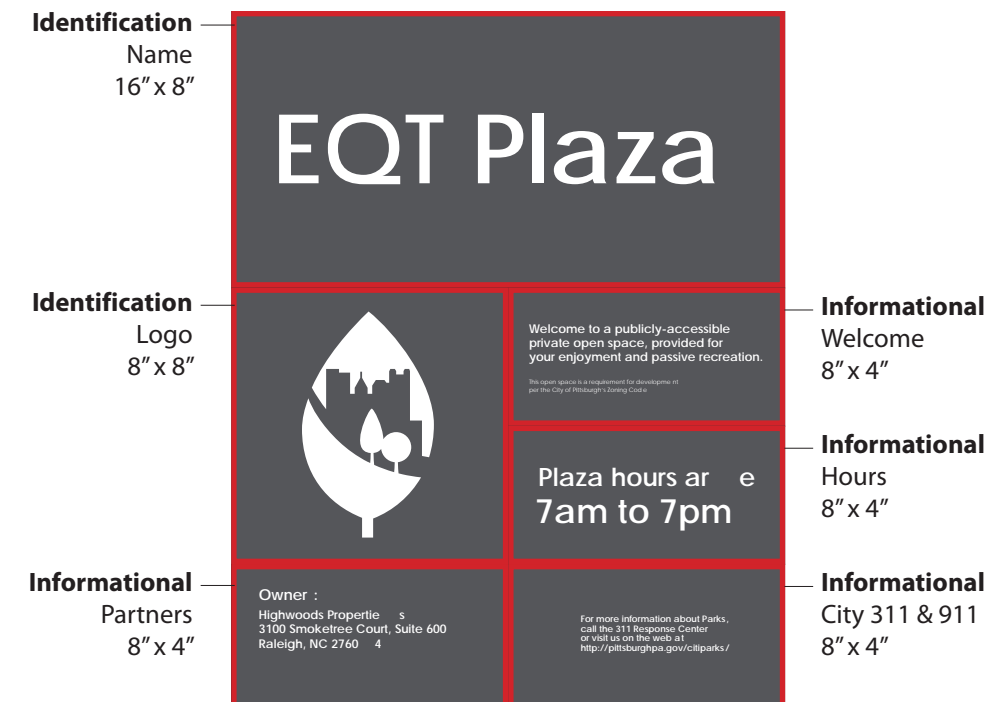
Privately-owned Open Space

To be dark gray vinyl on metal. 3M 7725-41 Dark Gray Match PMS Cool Grey 11c if printing on white vinyl.

Note: Logo shown to be used for all privately-owned open space.

Century Gothic font family

May be attached to fence, wall or post.



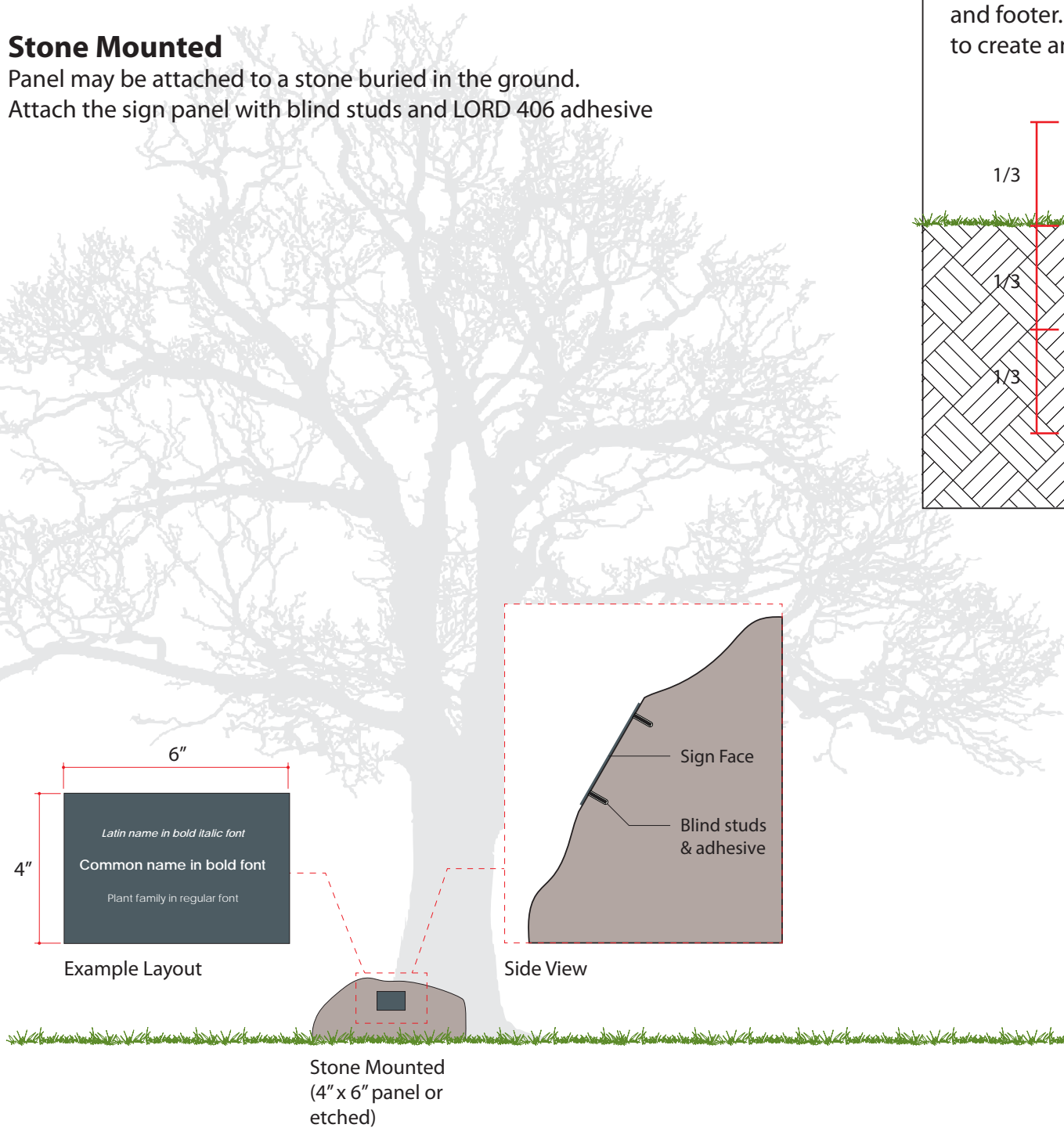
Privately-Owned Open Space
16" x 20"

Tree Marker

Used to label tree species

Stone Mounted

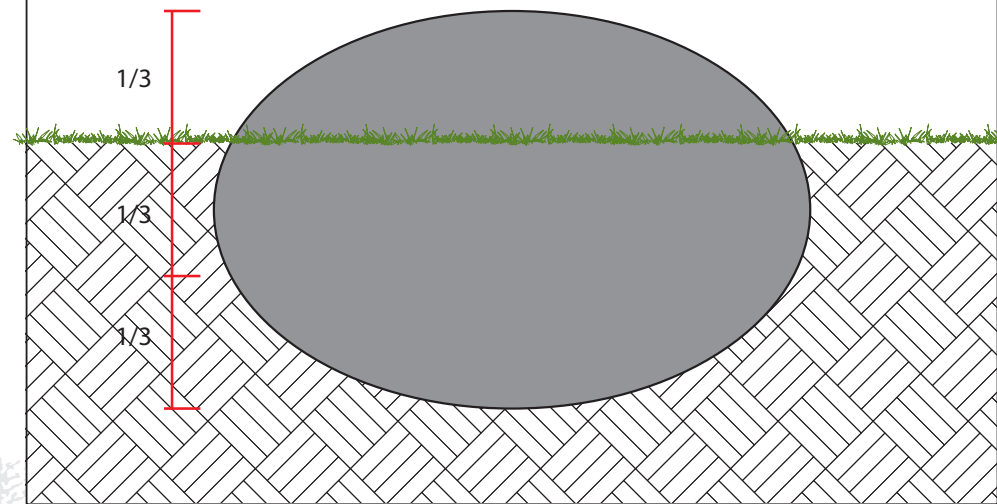
Panel may be attached to a stone buried in the ground.
Attach the sign panel with blind studs and LORD 406 adhesive



Stone Burial Guide

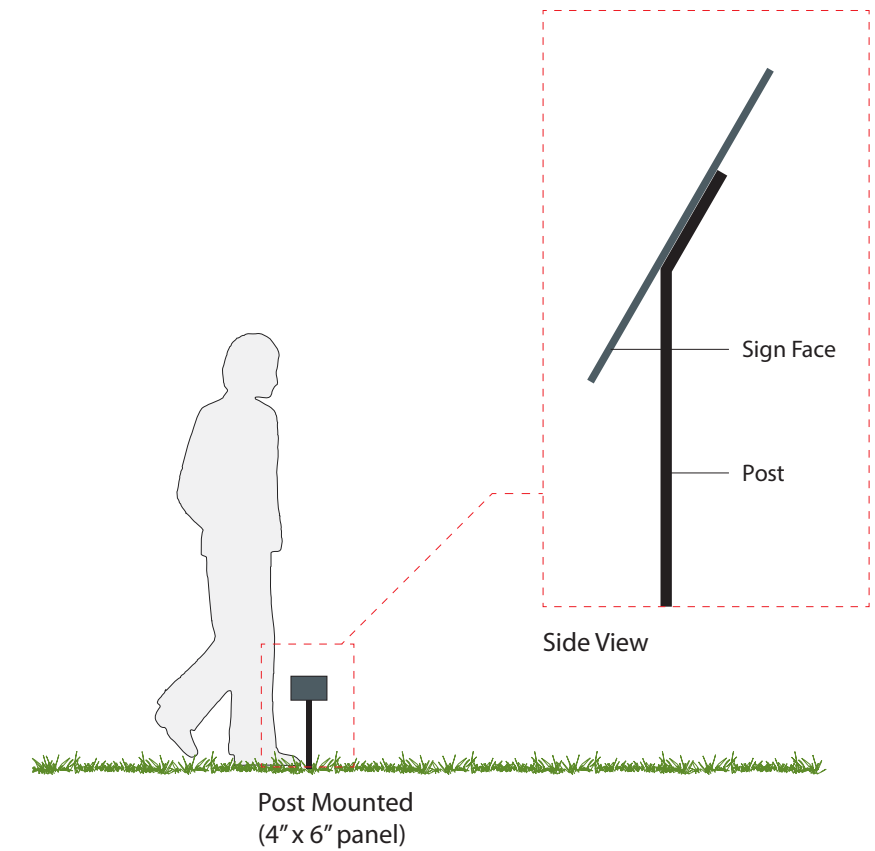
It should appear that 1/3 of the stone is visible above grade.
No undercut is to be visible above grade.

Stone may be cut in half. This will allow for a shallower hole and footer. Also, the other half of the stone can be used to create another sign.



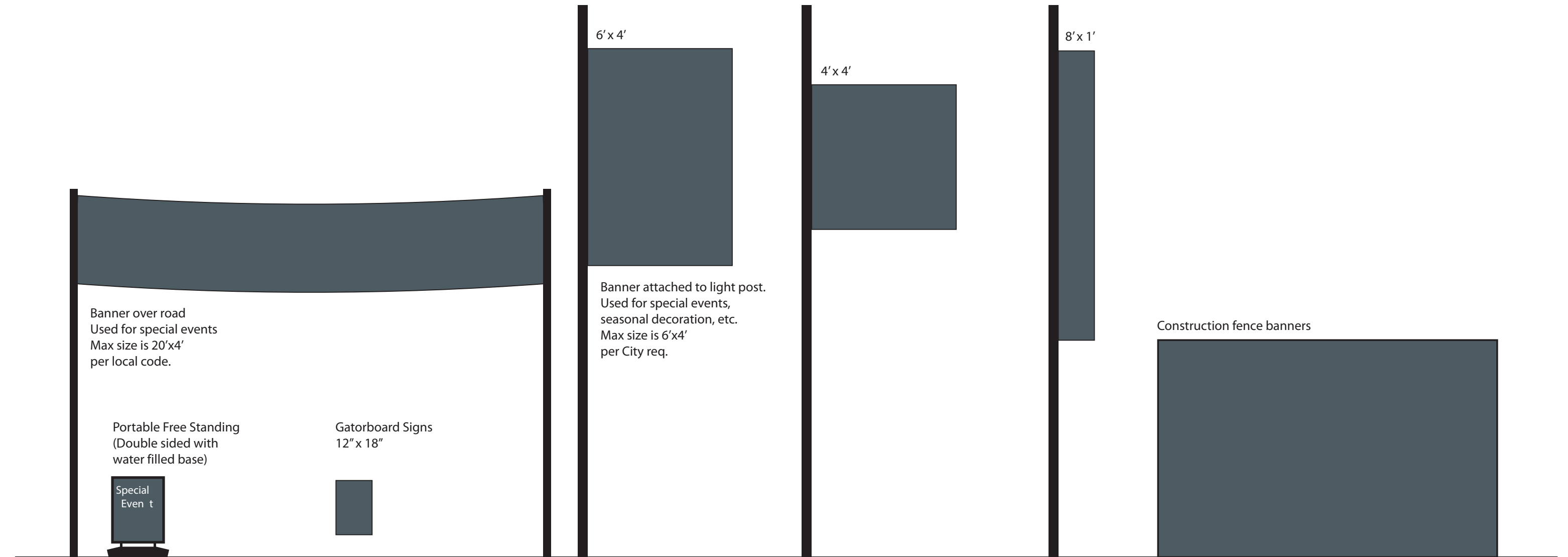
Post Mounted

3/16" thick x 1.5"-2" wide steel or aluminum post.
Bend at 30° angle.
Attach sign panel to post with LORD 406 adhesive



Temporary

Art Commission may be required.
special DPW permits may be required.



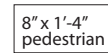
Custom

Use these guidelines for developing custom sign layouts for Community Parks.
 Does not apply for Neighborhood Parks, Riverfront Parks, Greenways, Vacant Lots, or Privately-owned Open Space.
 Layouts must be approved by City of Pittsburgh Art Commission as well as City Planning and Department of Public Works.

Sizes

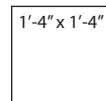
These sizes are based on the standard panels used in the Open Space Signage Standards 2016.

Identification



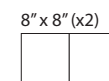
*Not to exceed 3.3sf (vehicular)
 *Not to exceed .87sf (pedestrian)

Directional



*Not to exceed 1.8sf

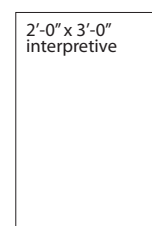
Regulatory



Note: Must be consistent with City Code language & icons

*Not to exceed 1.1sf

Informational



1'-0" x 1'-0"
 other uses

*Not to exceed 6sf (interpretive)
 *Not to exceed 1sf (other uses)

Content

Must have regulatory messages (written + icons). As defined in Open Space Signage Standards 2016.

Fonts

Please see Section 2.0 of the Sign Standards Manual for standard font usage.

Materials

Always use permanent & water resistant materials such as aluminum, plastic, acrylic, polycarbonate, Sintra, etc.
 Prints should be done with UV stable inks and sign faces should be built with UV stable substrates to prevent fading.
 When possible, use materials that are non-porous and graffiti resistant.

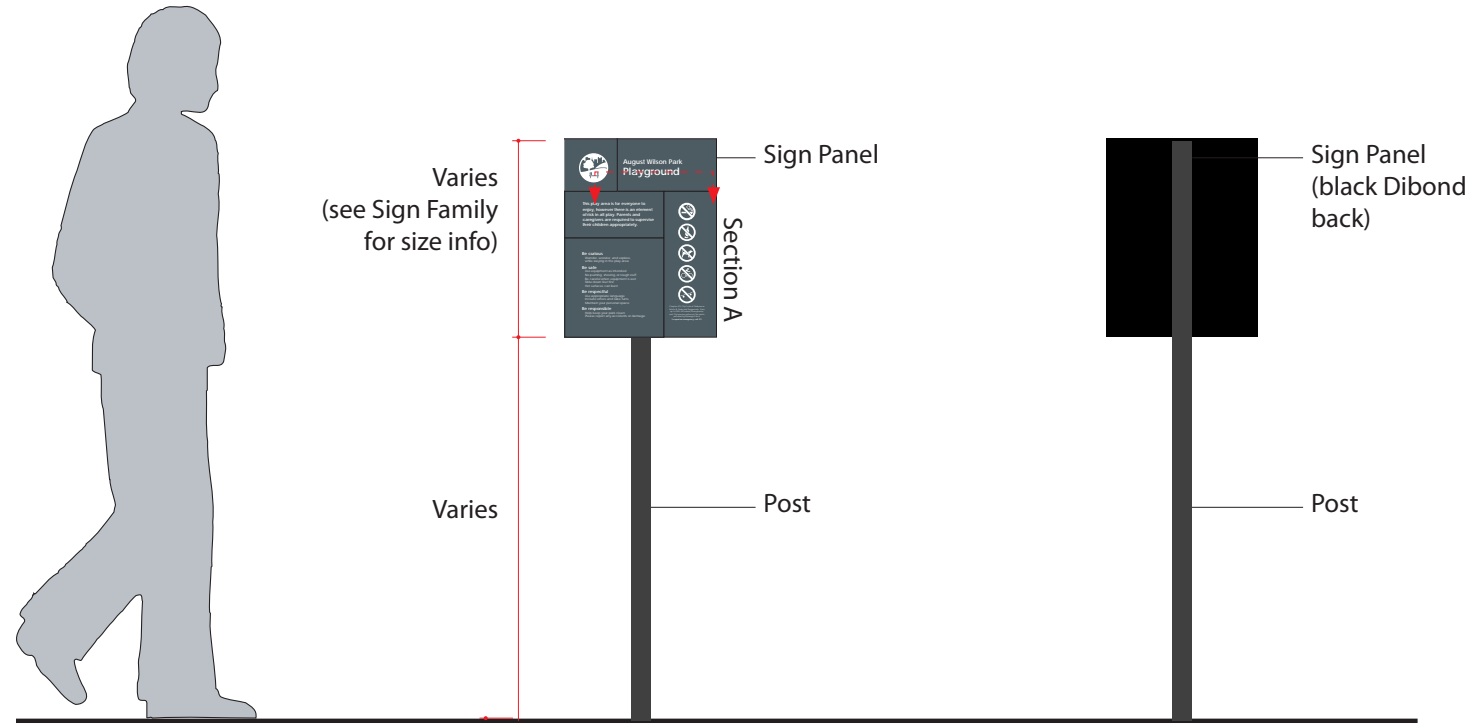
Logos

Open Space logo must be present at a size of 8"x8".
 The logo panel is not included in the above square footage allowances.
 Use City Shield with 311 text.
 All other entities are to be presented as plain text (no logo) and have some legal agreement with the City for that Open Space.

Existing Custom Open Space Signs

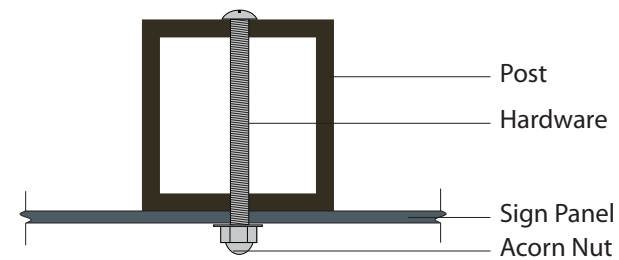
Allegheny Commons Park
 Mellon Square Park

Single Sided Panel with Single Post

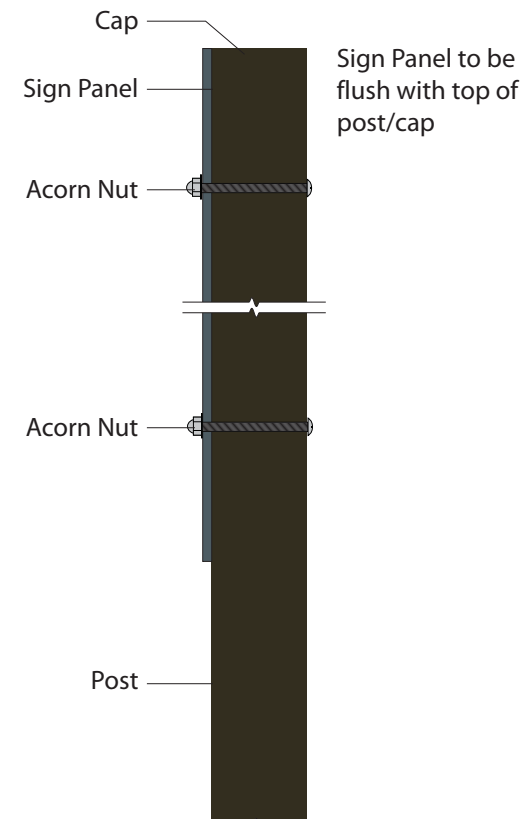


Front Elevation

Rear Elevation



Section A



Side View

Sign Panel

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet/plate OR 3mm Dibond PE aluminum composite material (ACM)
- For single sided Dibond signs, black back is to show
- Apply vinyl to face as required.
 - "Scotchcal" 3M non-reflective opaque vinyl film, or approved equivalent
 - Apply graffiti-proof laminate
 - Thickness shall be 0.003 inch minimum and 0.006 inch maximum, or as specified.
 - The pigmented material shall be sufficiently opaque when applied to completely hide a contrasting white printed text on a blue surface.
 - Properly processed and applied material shall withstand 5 years vertical, south facing, unprotected, exterior exposure at the work site with no appreciable deterioration such as cracking, checking, blistering, delamination, or loss of adhesion. The material will show no appreciable discoloration after cleaning.
 - Shrinkage shall not exceed 1/64 inch (0.4mm) in any direction.
 - Screen inks shall be "Scotchcal" brand opaque screen printing inks Series 3900, or approved equivalent.
 - Press ink shall be "Scotchcal" brand letterpress inks Series 850, or approved equivalent.

Hardware

- See hardware details page
- Screw placement - as shown on artwork

Foundation

- See foundation details page.

Installation

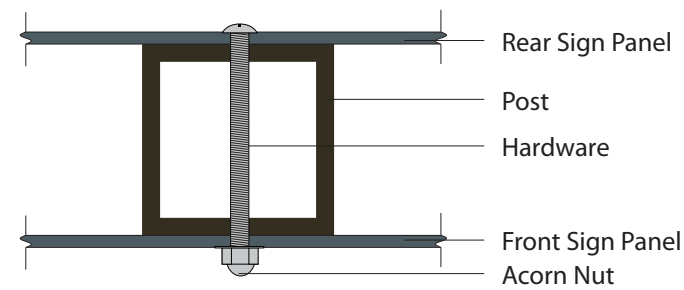
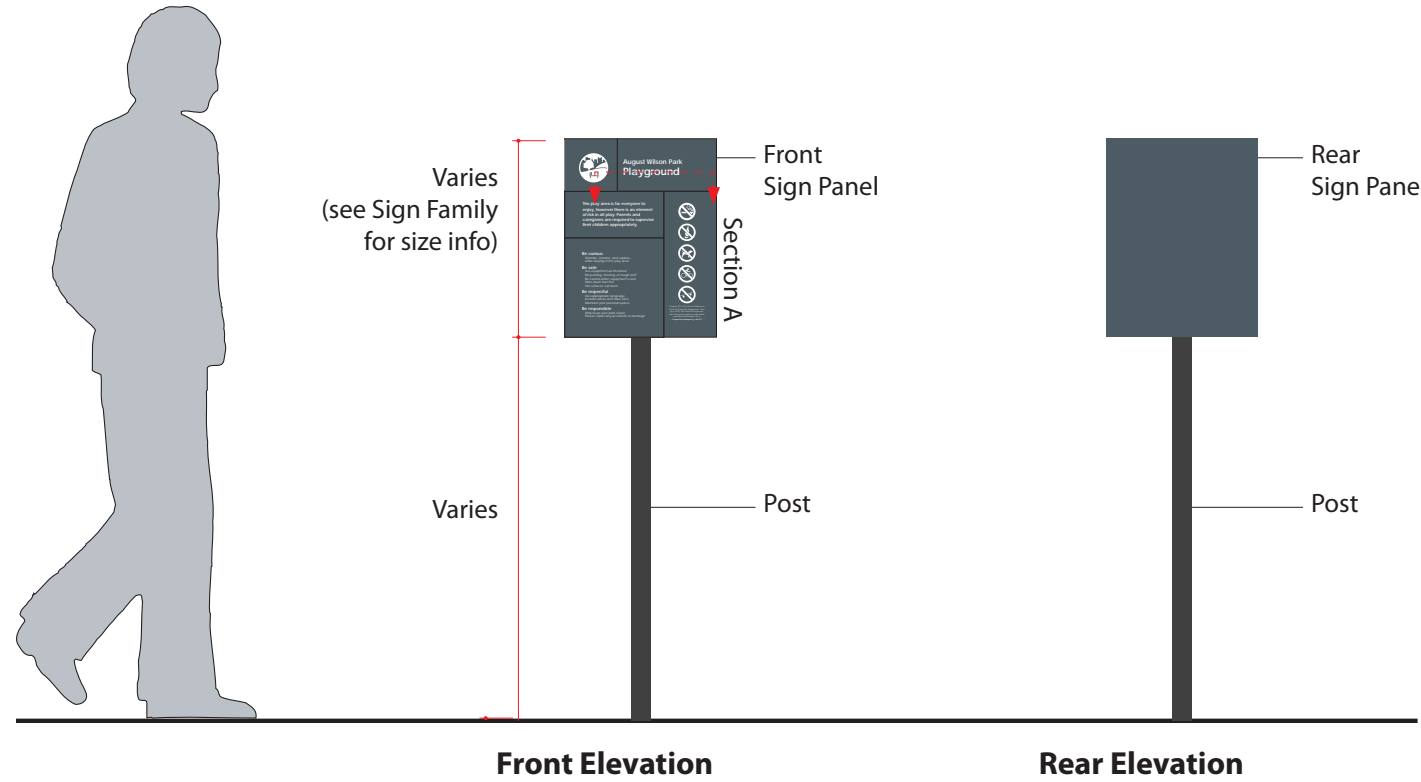
- See drawing(s)
- Attach sign panel(s) to posts before installation in ground. This may be done with hardware or temporarily.
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.

Black Cap

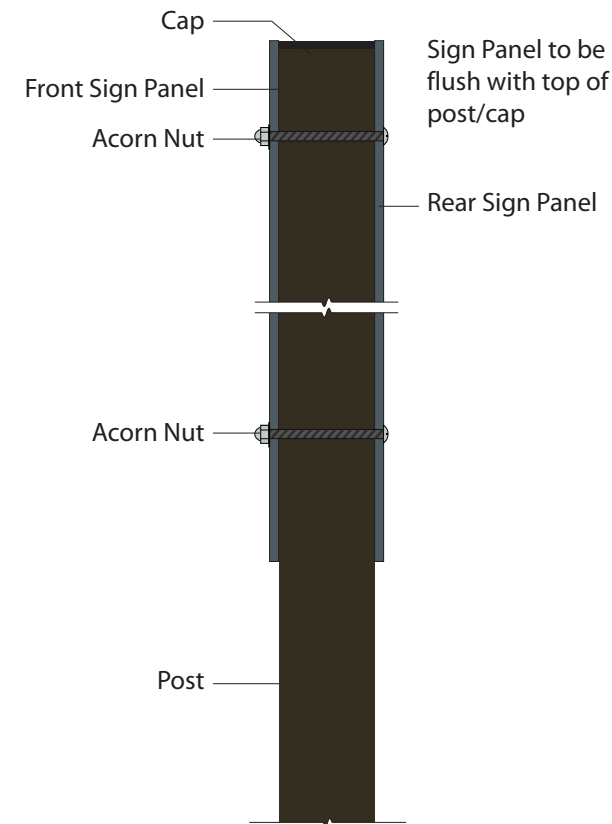
- Plastic or aluminum cap to be placed in end of post if under 6' tall



Double Sided Panel with Single Post



Section A



Side View

Sign Panel

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet/plate OR 3mm Dibond PE aluminum composite material (ACM)
- For single sided Dibond signs, black back is to show
- Apply vinyl to face as required.
 - "Scotchcal" 3M non-reflective opaque vinyl film, or approved equivalent
 - Apply graffiti-proof laminate
 - Thickness shall be 0.003 inch minimum and 0.006 inch maximum, or as specified.
 - The pigmented material shall be sufficiently opaque when applied to completely hide a contrasting white printed text on a blue surface.
 - Properly processed and applied material shall withstand 5 years vertical, south facing, unprotected, exterior exposure at the work site with no appreciable deterioration such as cracking, checking, blistering, delamination, or loss of adhesion. The material will show no appreciable discoloration after cleaning.
 - Shrinkage shall not exceed 1/64 inch (0.4mm) in any direction.
 - Screen inks shall be "Scotchcal" brand opaque screen printing inks Series 3900, or approved equivalent.
 - Press ink shall be "Scotchcal" brand letterpress inks Series 850, or approved equivalent.

Hardware

- See hardware details page.
- Screw placement - as shown on artwork

Foundation

- See foundation details page.

Installation

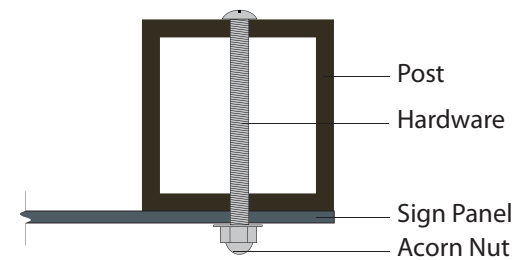
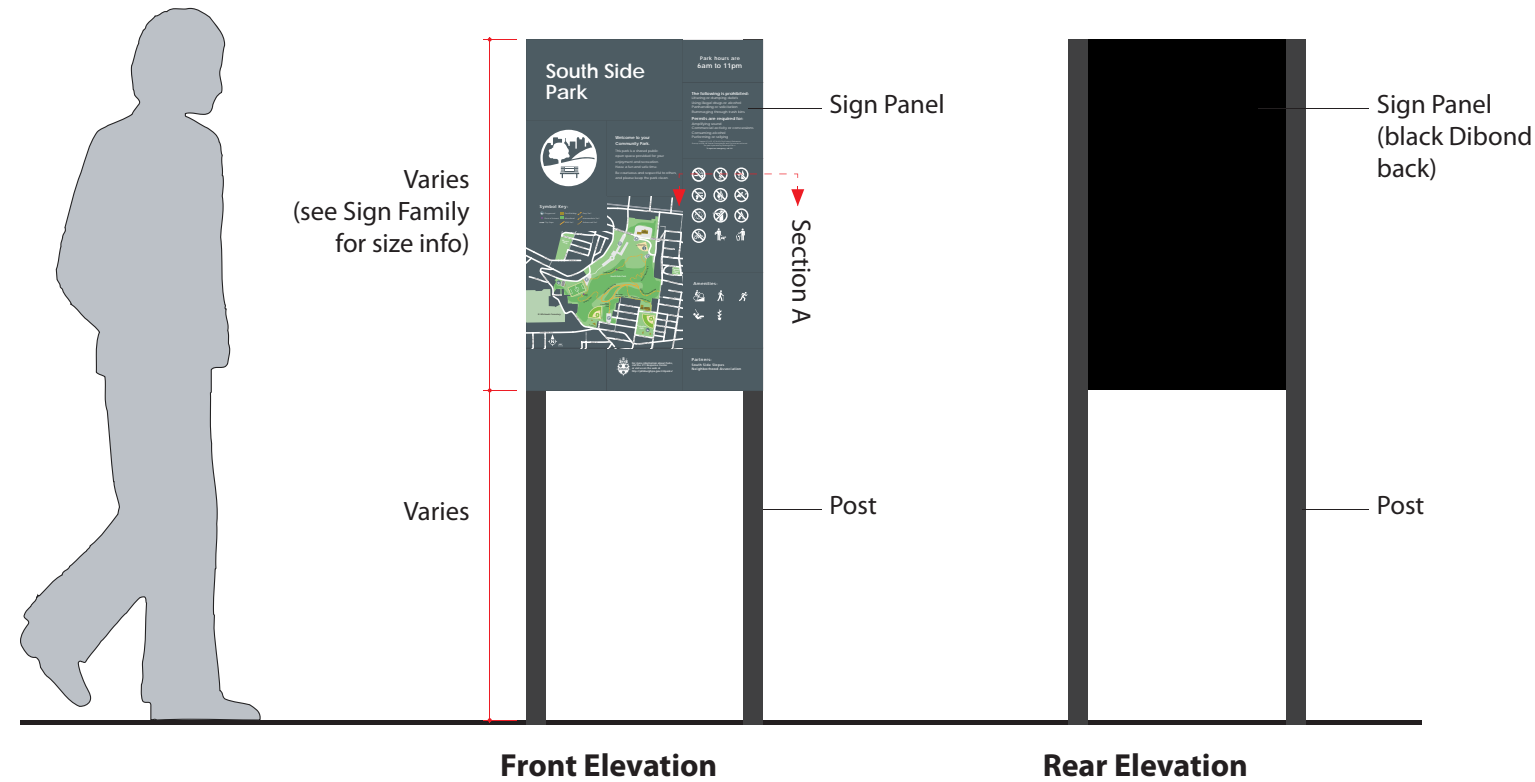
- See drawing(s)
- Attach sign panel(s) to posts before installation in ground. This may be done with hardware or temporarily.
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.

Black Cap

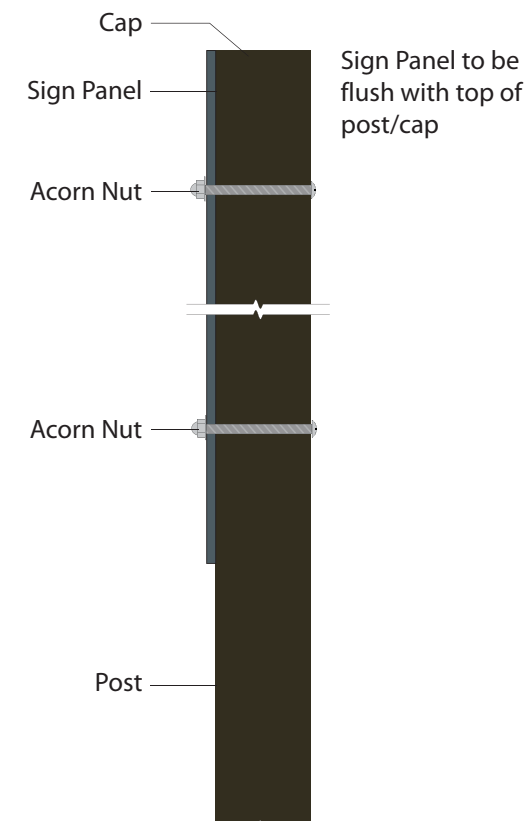
- Plastic or aluminum cap to be placed in end of post if under 6' tall



Single Sided Panel with Double Post



Section A



Side View

Sign Panel

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet/plate OR 3mm Dibond PE aluminum composite material (ACM)
- For single sided Dibond signs, black back is to show
- Apply vinyl to face as required.
 - "Scotchcal" 3M non-reflective opaque vinyl film, or approved equivalent
 - Apply graffiti-proof laminate
 - Thickness shall be 0.003 inch minimum and 0.006 inch maximum, or as specified.
 - The pigmented material shall be sufficiently opaque when applied to completely hide a contrasting white printed text on a blue surface.
 - Properly processed and applied material shall withstand 5 years vertical, south facing, unprotected, exterior exposure at the work site with no appreciable deterioration such as cracking, checking, blistering, delamination, or loss of adhesion. The material will show no appreciable discoloration after cleaning.
 - Shrinkage shall not exceed 1/64 inch (0.4mm) in any direction.
 - Screen inks shall be "Scotchcal" brand opaque screen printing inks Series 3900, or approved equivalent.
 - Press ink shall be "Scotchcal" brand letterpress inks Series 850, or approved equivalent.

Hardware

- See hardware details page
- Screw placement - as shown on artwork

Foundation

- See foundation details page.

Installation

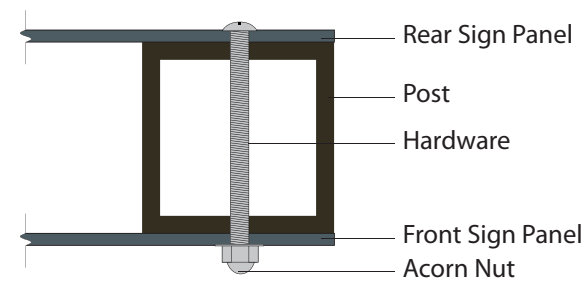
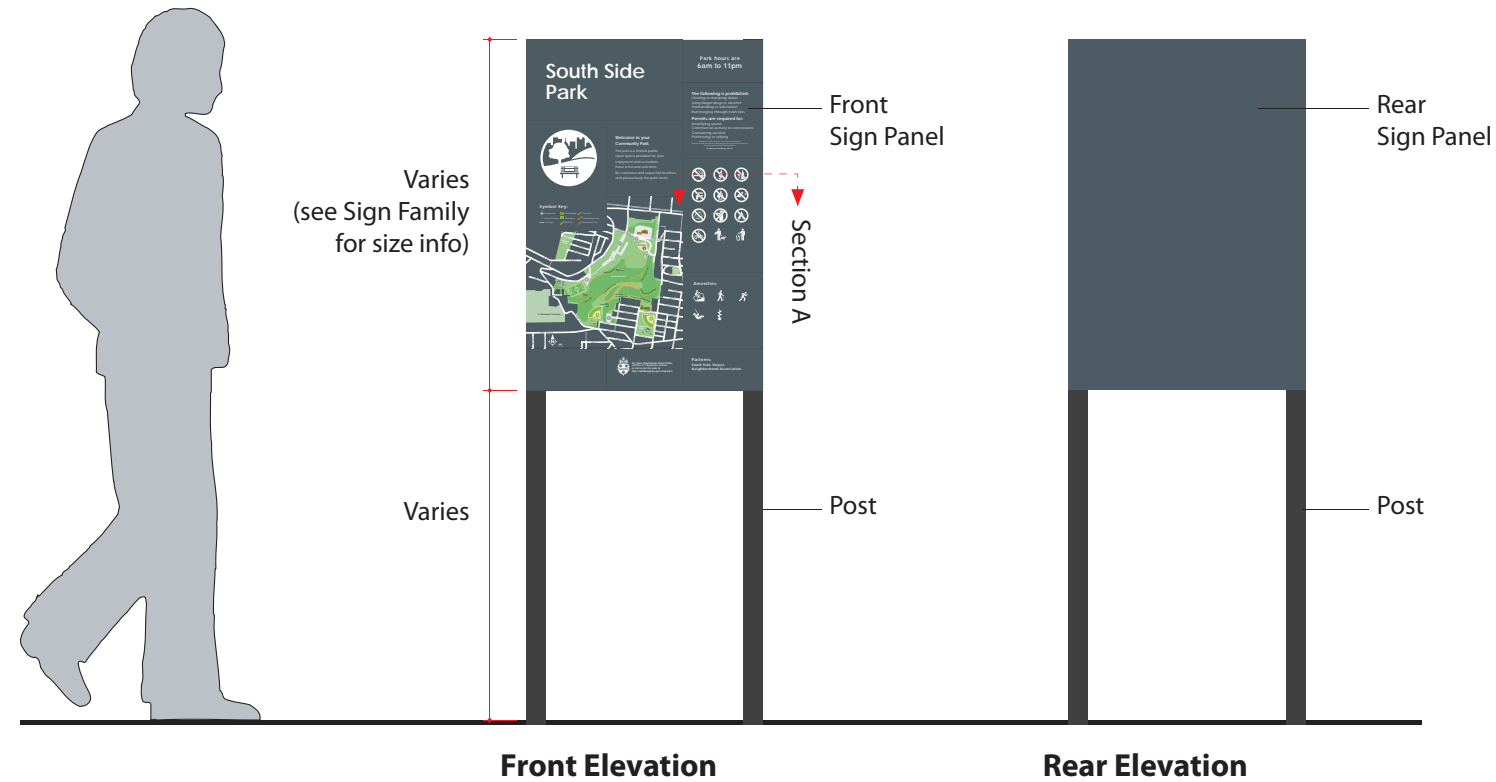
- See drawing(s)
- Attach sign panel(s) to posts before installation in ground. This may be done with hardware or temporarily. Sign panel shall be flush with post edge.
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.

Black Cap

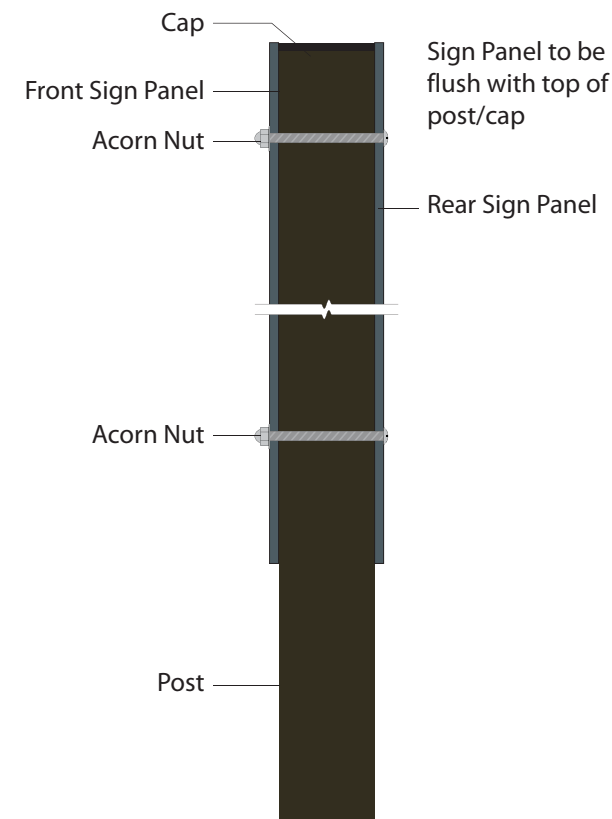
- Plastic or aluminum cap to be placed in end of post if under 6' tall



Double Sided Panel with Double Post



Section A



Side View

Sign Panel

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet/plate OR 3mm Dibond PE aluminum composite material (ACM)
- For single sided Dibond signs, black back is to show
- Apply vinyl to face as required.
 - "Scotchcal" 3M non-reflective opaque vinyl film, or approved equivalent
 - Apply graffiti-proof laminate
 - Thickness shall be 0.003 inch minimum and 0.006 inch maximum, or as specified.
 - The pigmented material shall be sufficiently opaque when applied to completely hide a contrasting white printed text on a blue surface.
 - Properly processed and applied material shall withstand 5 years vertical, south facing, unprotected, exterior exposure at the work site with no appreciable deterioration such as cracking, checking, blistering, delamination, or loss of adhesion. The material will show no appreciable discoloration after cleaning.
 - Shrinkage shall not exceed 1/64 inch (0.4mm) in any direction.
 - Screen inks shall be "Scotchcal" brand opaque screen printing inks Series 3900, or approved equivalent.
 - Press ink shall be "Scotchcal" brand letterpress inks Series 850, or approved equivalent.

Hardware

- See hardware details page
- Screw placement - as shown on artwork

Foundation

- See foundation details page.

Installation

- See drawing(s)
- Attach sign panel(s) to posts before installation in ground. This may be done with hardware or temporarily. Sign panel shall be flush with post edge.
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.

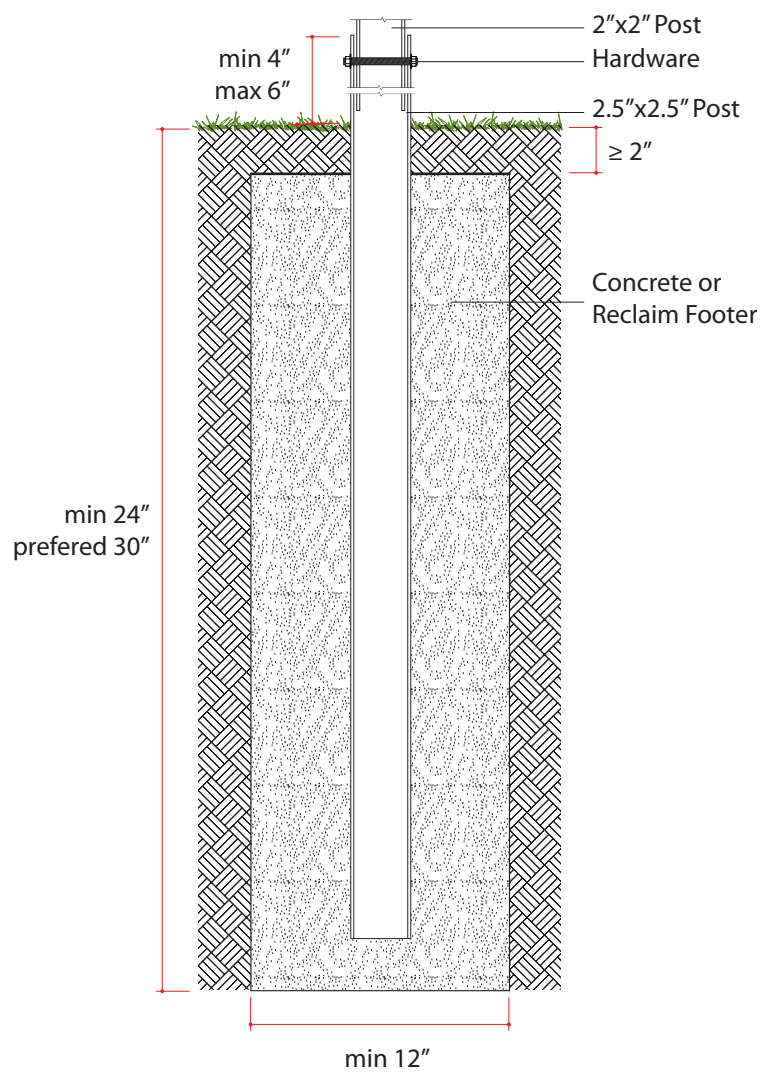
Black Cap

- Plastic or aluminum cap to be placed in end of post if under 6' tall

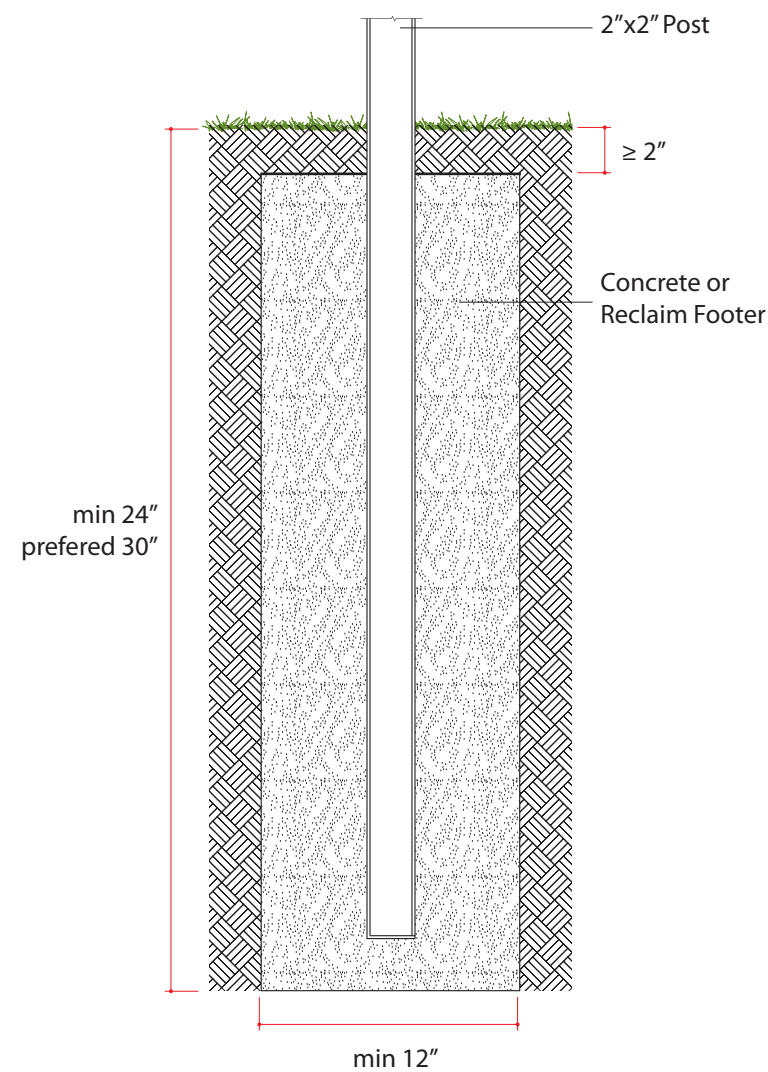


Aluminum Post Foundation Details

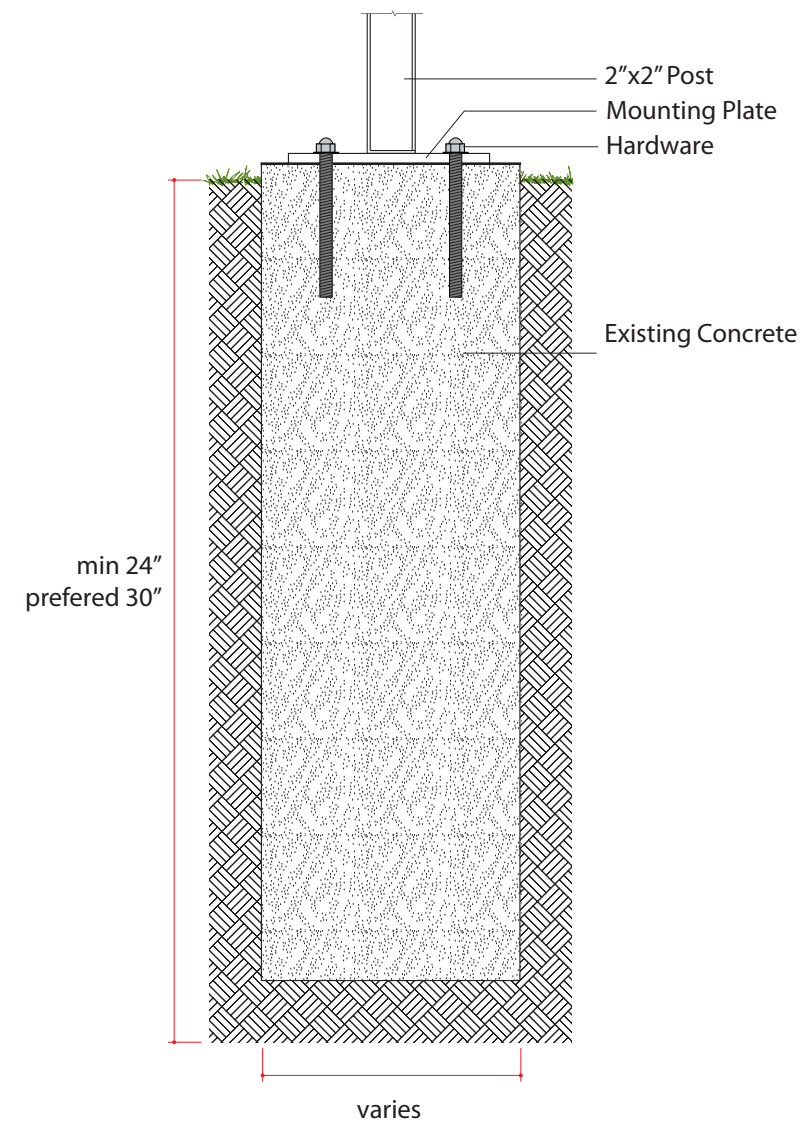
2" x 2" Post Mounting Details



Direct Burial with Breakaway Post



Direct Burial without Breakaway Post



Attached to Existing Concrete

Foundation

- Provide adequate concrete or reclaim asphalt footer to support sign in given soil conditions
- Install deep enough to prevent heaving due to freeze-thaw cycle

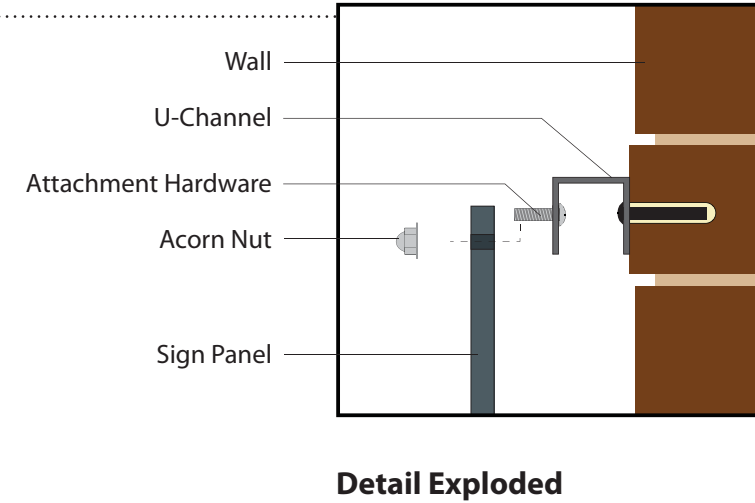
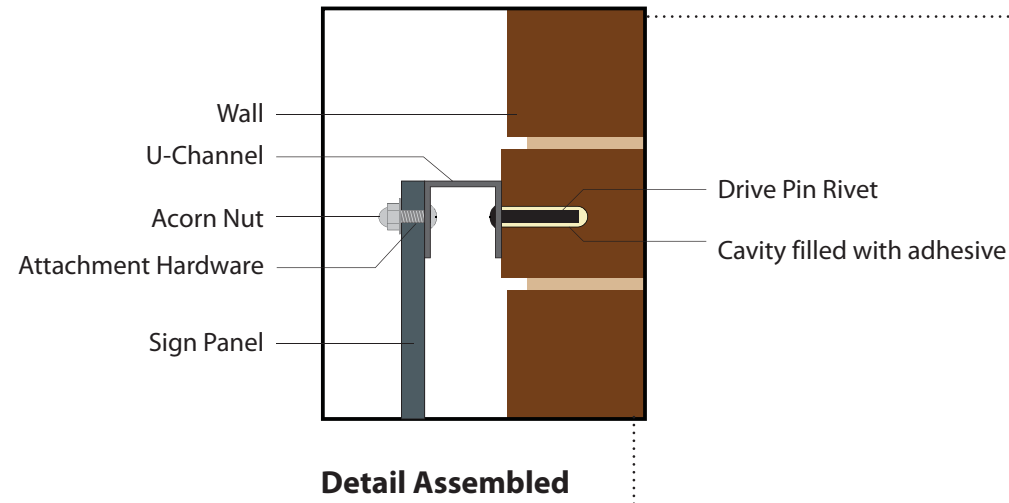
Hardware

- See hardware details page
- 2x2 or 2.5x2.5 square tube aluminum post

Installation

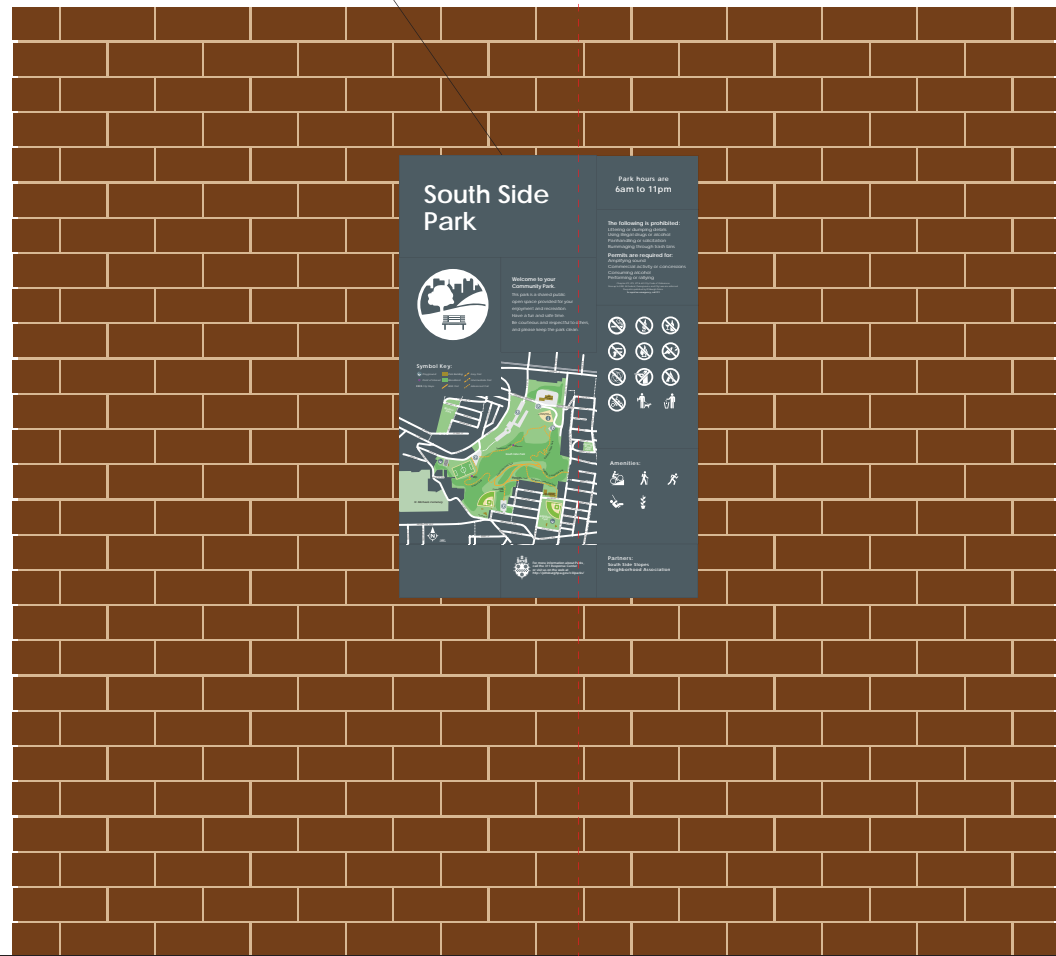
- Remove excess fill, rock, and debris to finished surface grades level with existing elements and match surface treatment to surrounding area. Ensure that there are no holes or trip hazards and unsuitable excavation debris is removed and disposed off-site.
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.

Signs Attached to Masonry Walls
Removable Attachment
(brick, CMU block, plaster, etc.)

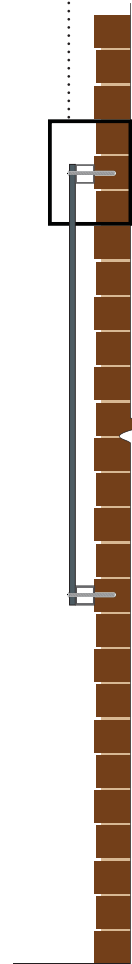


Vertical tubes on sides,
Horizontal tubes on top & bottom
behind sign panel

Section A



Elevation



Section A

Sign Panel

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet/plate OR 3mm Dibond PE aluminum composite material (ACM)
- Apply vinyl to face as required.
 - "Scotchcal" 3M non-reflective opaque vinyl film, or approved equivalent
 - Apply graffiti-proof laminate
 - Thickness shall be 0.003 inch minimum and 0.006 inch maximum, or as specified.
 - The pigmented material shall be sufficiently opaque when applied to completely hide a contrasting white printed text on a blue surface.
 - Properly processed and applied material shall withstand 5 years vertical, south facing, unprotected, exterior exposure at the work site with no appreciable deterioration such as cracking, checking, blistering, delamination, or loss of adhesion. The material will show no appreciable discoloration after cleaning.
 - Shrinkage shall not exceed 1/64 inch (0.4mm) in any direction.
 - Screen inks shall be "Scotchcal" brand opaque screen printing inks Series 3900, or approved equivalent.
 - Press ink shall be "Scotchcal" brand letterpress inks Series 850, or approved equivalent.

Hardware

- See hardware details page.
- 2x2 aluminum u-channel
- Screw placement - as shown on artwork

Attachment

- Attach brackets and fittings securely to walls with concealed fasteners and anchoring devices to comply with manufacturer's written instructions

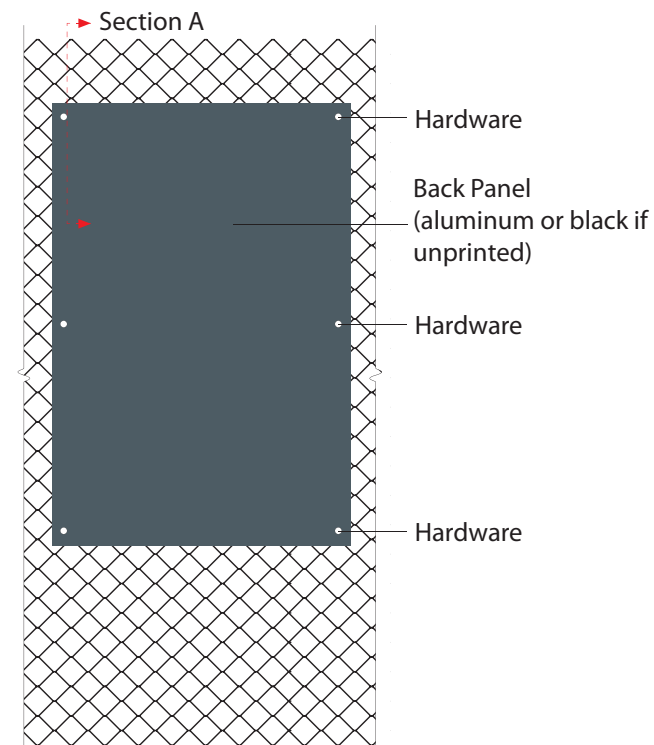
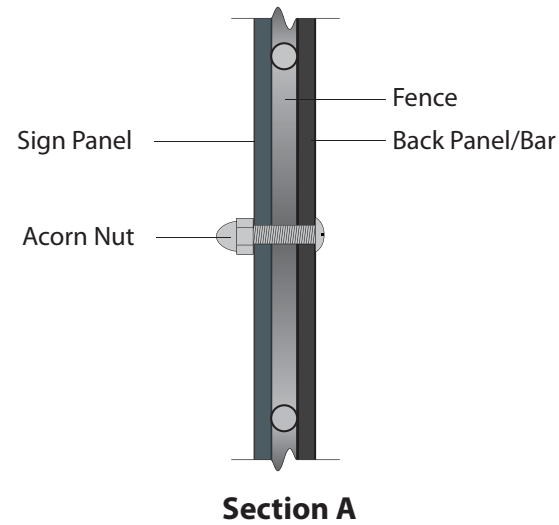
Installation

- See drawing(s)
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance. Sign panel shall be flush with channel edge.

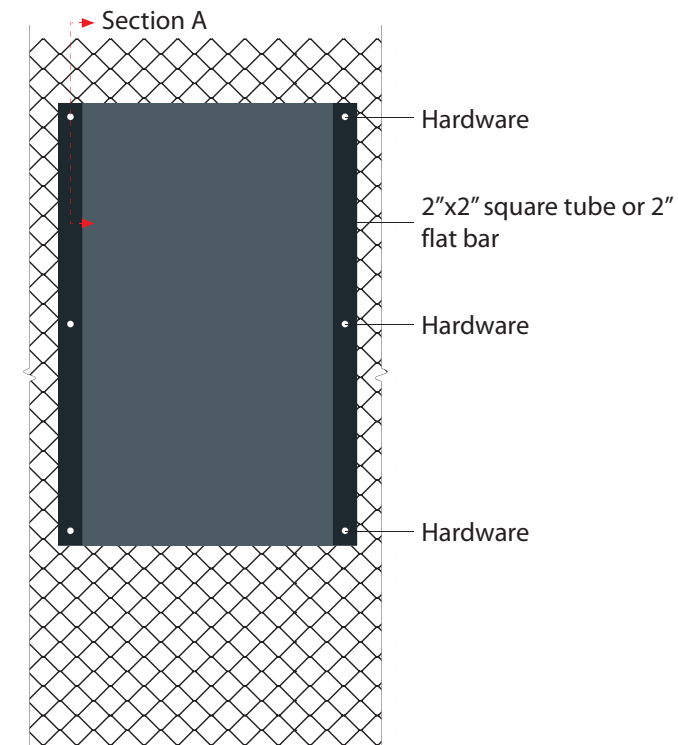
Signs Attached to a Fence



Front Elevation
Chainlink Fence



Rear Elevation
(with back panel)



Rear Elevation
(no back panel)

Sign Panel

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet/plate OR 3mm Dibond PE aluminum composite material (ACM)
- Apply vinyl to face as required.
 - "Scotchcal" 3M non-reflective opaque vinyl film, or approved equivalent
 - Apply graffiti-proof laminate
 - Thickness shall be 0.003 inch minimum and 0.006 inch maximum, or as specified.
 - The pigmented material shall be sufficiently opaque when applied to completely hide a contrasting white printed text on a blue surface.
 - Properly processed and applied material shall withstand 5 years vertical, south facing, unprotected, exterior exposure at the work site with no appreciable deterioration such as cracking, checking, blistering, delamination, or loss of adhesion. The material will show no appreciable discoloration after cleaning.
 - Shrinkage shall not exceed 1/64 inch (0.4mm) in any direction.
 - Screen inks shall be "Scotchcal" brand opaque screen printing inks Series 3900, or approved equivalent.
 - Press ink shall be "Scotchcal" brand letterpress inks Series 850, or approved equivalent.

Hardware

- See hardware details page
- Screw placement - as shown on artwork

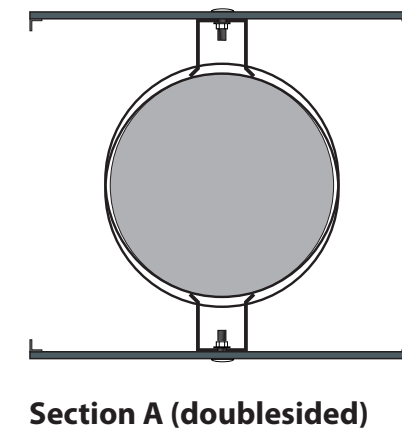
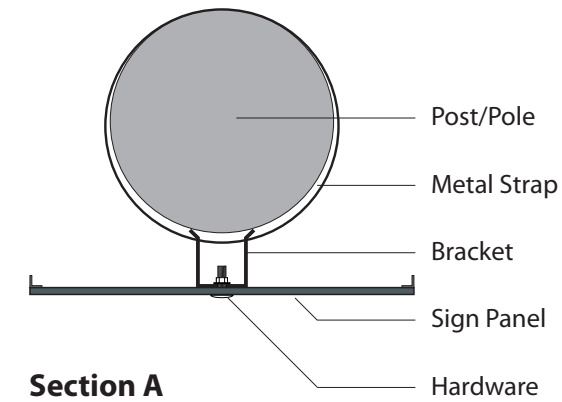
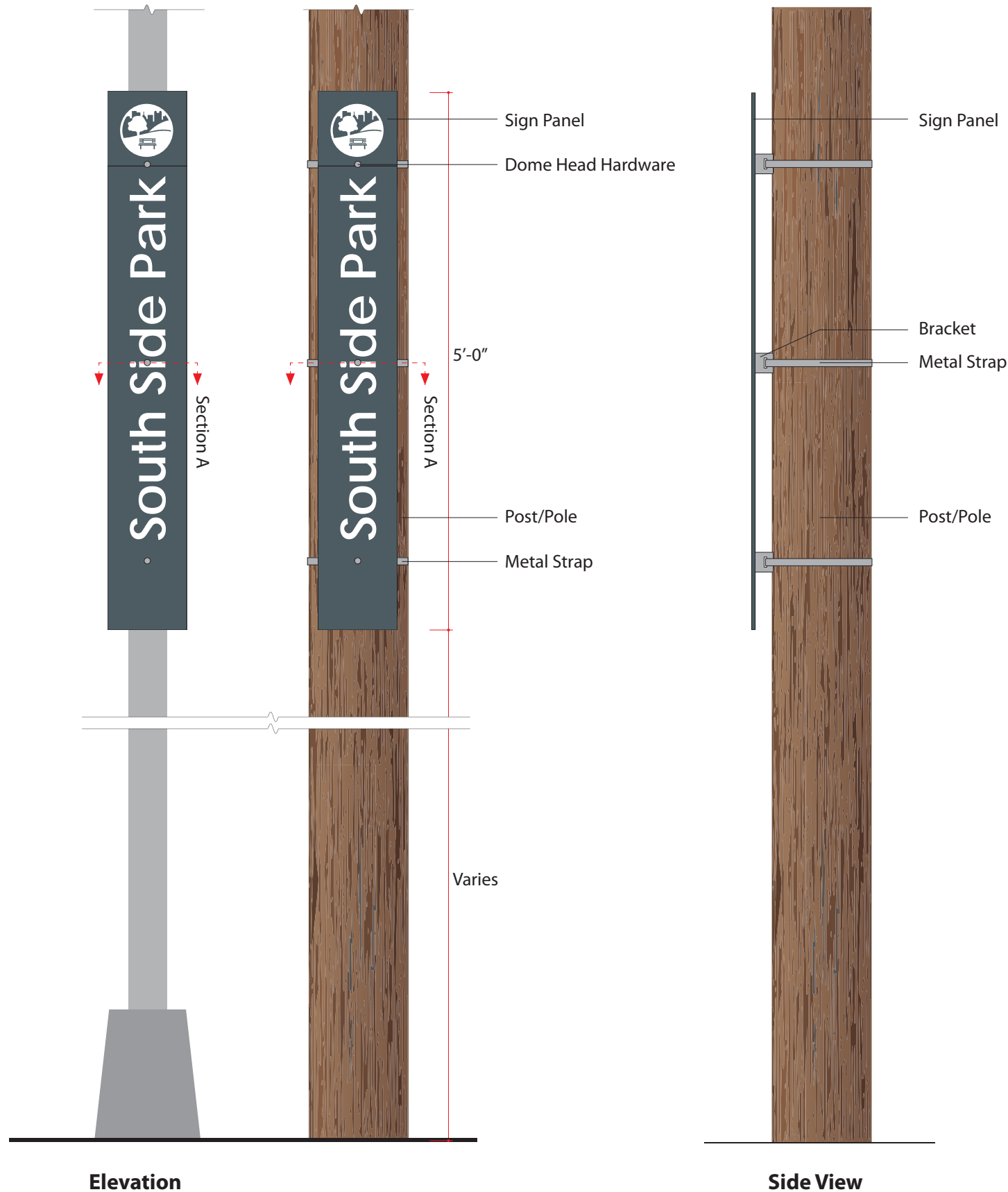
Attachment

- Sandwich the sign panel and back panel or 2x2 square aluminum tubes around fence and secure as specified

Installation

- See drawing(s)
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance. Sign panel shall be flush with post/bar edge.

Signs Attached to Lamp Posts & Telephone Poles



NOTE

Prior to installing this sign type, ensure the lamp post or telephone pole can sustain the additional wind load created by the sign face.

Ensure conformity with local codes prior to installation.

Verify that the sign does not interfere with climbing pegs, access plates or any other vital component of the lamp post or telephone pole.

Sign Panel

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet/plate OR 3mm Dibond PE aluminum composite material (ACM)
- For single sided Dibond signs, black back is to show
- Apply vinyl to face as required.
 - "Scotchcal" 3M non-reflective opaque vinyl film, or approved equivalent
 - Apply graffiti-proof laminate
 - Thickness shall be 0.003 inch minimum and 0.006 inch maximum, or as specified.
 - The pigmented material shall be sufficiently opaque when applied to completely hide a contrasting white printed text on a blue surface.
 - Properly processed and applied material shall withstand 5 years vertical, south facing, unprotected, exterior exposure at the work site with no appreciable deterioration such as cracking, checking, blistering, delamination, or loss of adhesion. The material will show no appreciable discoloration after cleaning.
 - Shrinkage shall not exceed 1/64 inch (0.4mm) in any direction.
 - Screen inks shall be "Scotchcal" brand opaque screen printing inks Series 3900, or approved equivalent.
 - Press ink shall be "Scotchcal" brand letterpress inks Series 850, or approved equivalent.

Hardware

- Screw placement - as shown on artwork
- For black poles, use black straps. For brown, metal, galvanized, or stainless poles, use stainless straps.
- Bolt strap bracket, as shown

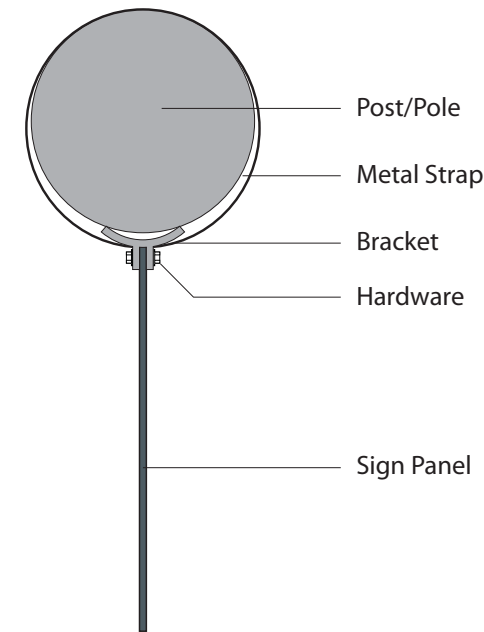
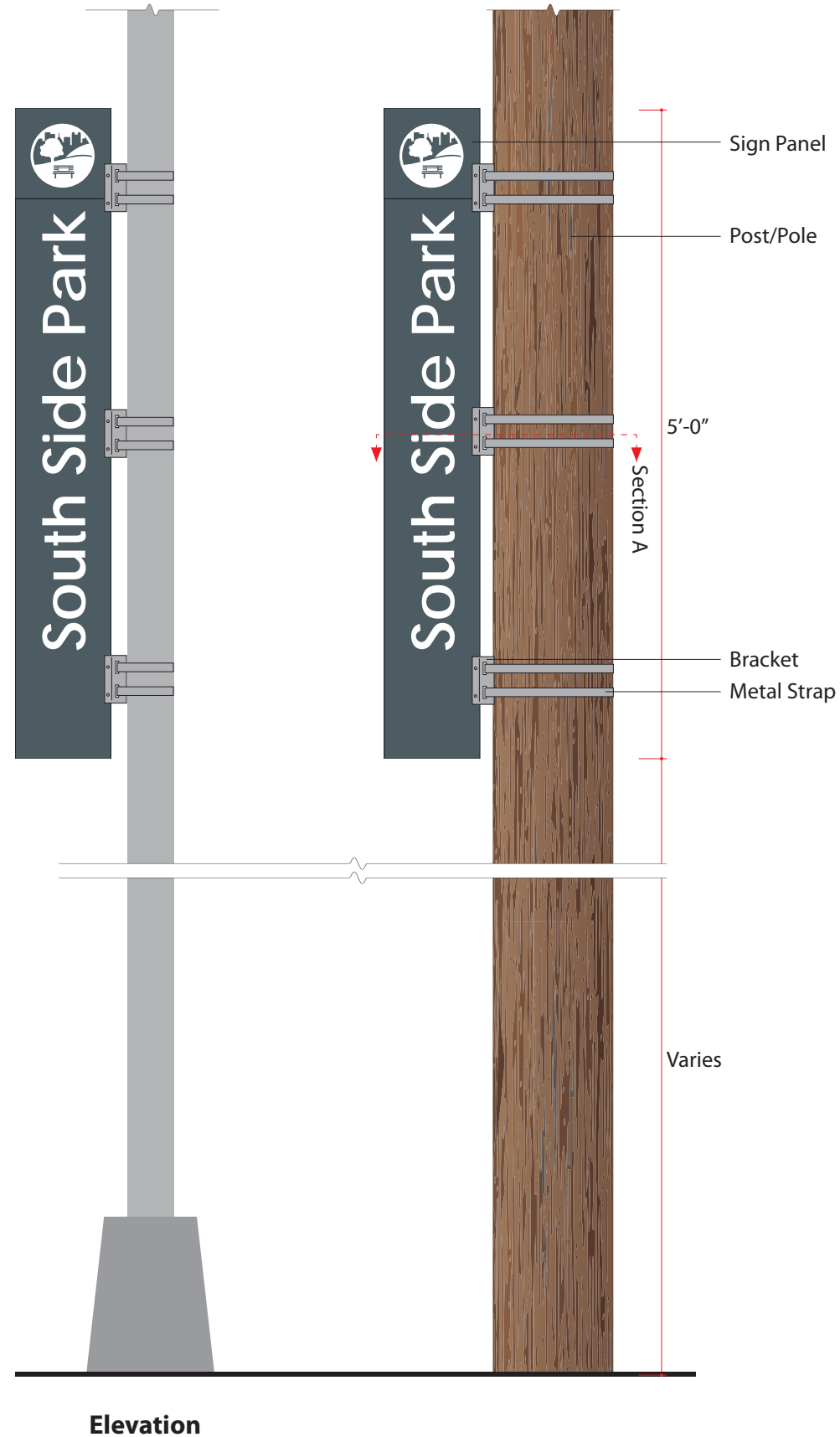
Attachment

- Attach bracket to post/pole with metal straps at appropriate positions to sign.

Installation

- See drawing(s)
- Verify that sign does not interfere with climbing pegs, access plates, or any other vital component of the post/pole
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.

Signs Attached to Lamp Posts & Telephone Poles



Section A



Bolt Strap Bracket (sign face removed)



Metal Strap

NOTE

Prior to installing this sign type, ensure the lamp post or telephone pole can sustain the additional wind load created by the sign face.

Ensure conformity with local codes prior to installation.

Verify that the sign does not interfere with climbing pegs, access plates or any other vital component of the lamp post or telephone pole.

Sign Panel

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet/plate OR 3mm Dibond PE aluminum composite material (ACM)
- For single sided Dibond signs, black back is to show
- Apply vinyl to face as required.
 - "Scotchcal" 3M non-reflective opaque vinyl film, or approved equivalent
 - Apply graffiti-proof laminate
 - Thickness shall be 0.003 inch minimum and 0.006 inch maximum, or as specified.
 - The pigmented material shall be sufficiently opaque when applied to completely hide a contrasting white printed text on a blue surface.
 - Properly processed and applied material shall withstand 5 years vertical, south facing, unprotected, exterior exposure at the work site with no appreciable deterioration such as cracking, checking, blistering, delamination, or loss of adhesion. The material will show no appreciable discoloration after cleaning.
 - Shrinkage shall not exceed 1/64 inch (0.4mm) in any direction.
 - Screen inks shall be "Scotchcal" brand opaque screen printing inks Series 3900, or approved equivalent.
 - Press ink shall be "Scotchcal" brand letterpress inks Series 850, or approved equivalent.

Hardware

- Screw placement - as shown on artwork
- For black poles, use black straps. For brown, metal, galvanized, or stainless poles, use stainless straps.
- Bolt strap bracket, as shown

Attachment

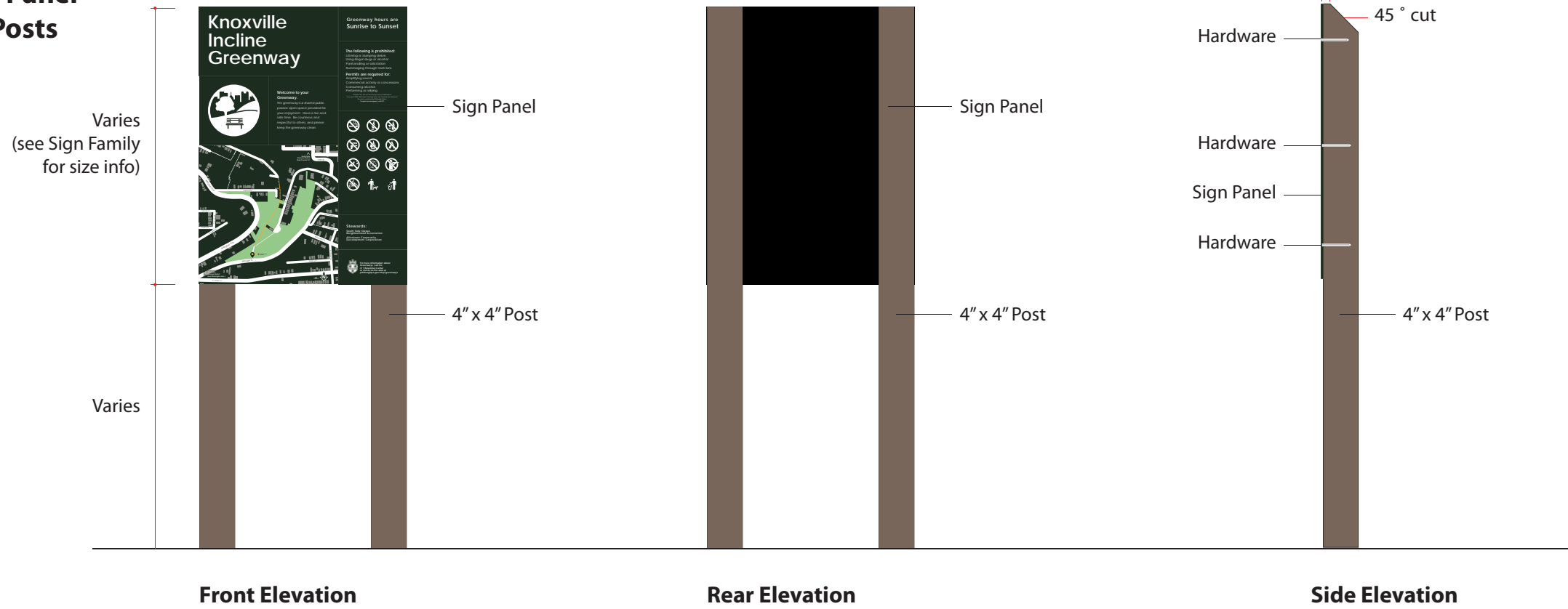
- Attach bracket to post/pole with metal straps at appropriate positions to sign.

Installation

- See drawing(s)
- Verify that sign does not interfere with climbing pegs, access plates, or any other vital component of the post/pole
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.

Wood Post Mounting Details

Single Sided Panel with Wood Posts



Sign Panel

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet/plate OR 3mm Dibond PE aluminum composite material (ACM)
- For single sided Dibond signs, black back is to show
- Apply vinyl to face as required.
 - "Scotchcal" 3M non-reflective opaque vinyl film, or approved equivalent
 - Apply graffiti-proof laminate
 - Thickness shall be 0.003 inch minimum and 0.006 inch maximum, or as specified.
 - The pigmented material shall be sufficiently opaque when applied to completely hide a contrasting white printed text on a blue surface.
 - Properly processed and applied material shall withstand 5 years vertical, south facing, unprotected, exterior exposure at the work site with no appreciable deterioration such as cracking, checking, blistering, delamination, or loss of adhesion. The material will show no appreciable discoloration after cleaning.
 - Shrinkage shall not exceed 1/64 inch (0.4mm) in any direction.
 - Screen inks shall be "Scotchcal" brand opaque screen printing inks Series 3900, or approved equivalent.
 - Press ink shall be "Scotchcal" brand letterpress inks Series 850, or approved equivalent.

Hardware

- See hardware details page
- Screw placement - as shown on artwork

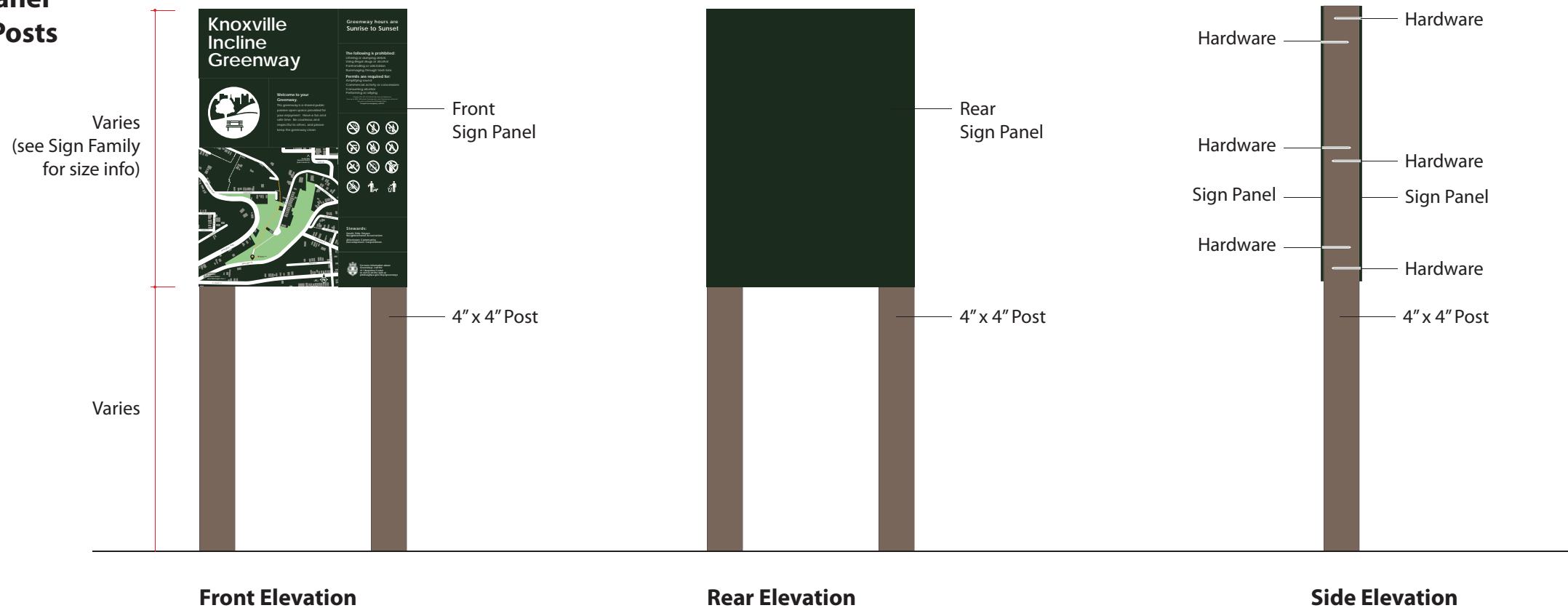
Foundation

- See foundation details.
- Provide adequate concrete or reclaim asphalt footer to support sign in given soil conditions
- Install deep enough to prevent heaving due to freeze-thaw cycle, as shown

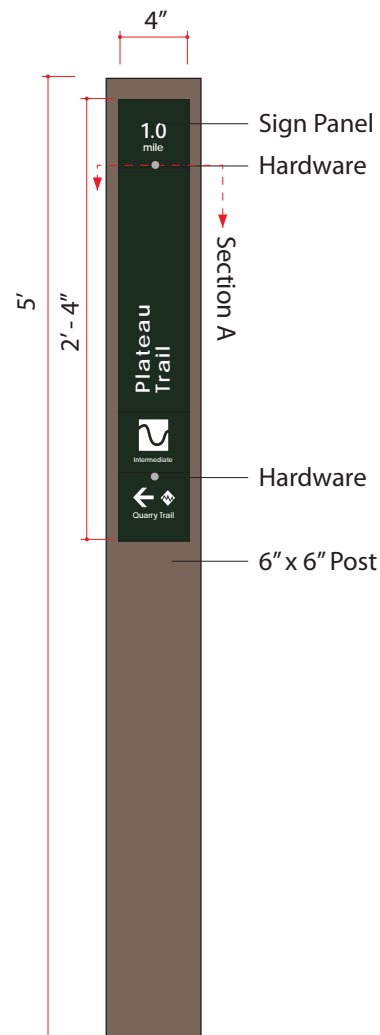
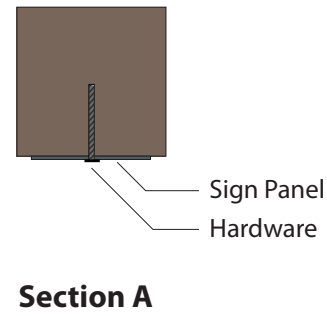
Installation

- See drawing(s)
- Attach sign panel(s) to posts before installation in ground. This may be done with hardware or temporarily. Sign panel shall be flush with post edge.
- Sign panels may be attached to existing posts & fences in the same way. Attach the sign panel to the existing wood fence or post with appropriate hardware.
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.
- Remove excess fill, rock, and debris to finished surface grades level with existing elements and match surface treatment to surrounding area. Ensure that there are no holes or trip hazards and unsuitable excavation debris is removed and disposed off-site.

Two Sided Panel with Wood Posts

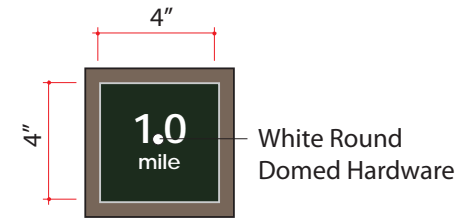


Trail Marker



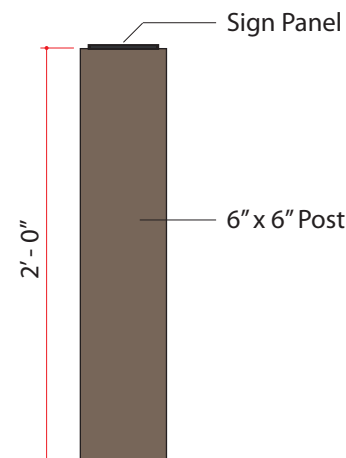
Front Elevation

Mile Marker



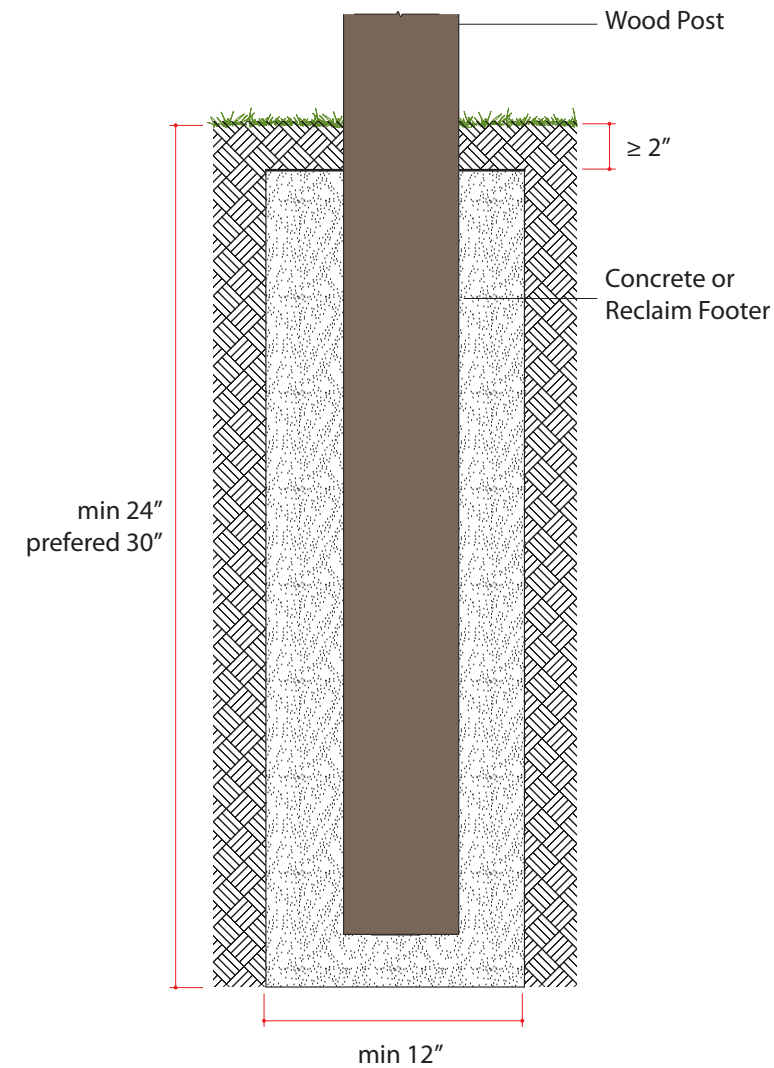
Trail mileage on top of post cap

Top View



Front Elevation

Wood Post Mounting Details



Sign Panel

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet/plate OR 3mm Dibond PE aluminum composite material (ACM)
- For single sided Dibond signs, black back is to show
- Apply vinyl to face as required.
 - "Scotchcal" 3M non-reflective opaque vinyl film, or approved equivalent
 - Apply graffiti-proof laminate
 - Thickness shall be 0.003 inch minimum and 0.006 inch maximum, or as specified.
 - The pigmented material shall be sufficiently opaque when applied to completely hide a contrasting white printed text on a blue surface.
 - Properly processed and applied material shall withstand 5 years vertical, south facing, unprotected, exterior exposure at the work site with no appreciable deterioration such as cracking, checking, blistering, delamination, or loss of adhesion. The material will show no appreciable discoloration after cleaning.
 - Shrinkage shall not exceed 1/64 inch (0.4mm) in any direction.
 - Screen inks shall be "Scotchcal" brand opaque screen printing inks Series 3900, or approved equivalent.
 - Press ink shall be "Scotchcal" brand letterpress inks Series 850, or approved equivalent.

Hardware

- See hardware details page
- Screw placement - as shown on artwork

Foundation

- See foundation details.
- Provide adequate concrete or reclaim asphalt footer to support sign in given soil conditions
- Install deep enough to prevent heaving due to freeze-thaw cycle, as shown

Installation

- See drawing(s)
- Attach sign panel(s) to posts before installation in ground. This may be done with hardware or temporarily.
- Sign panels may be attached to existing posts & fences in the same way. Attach the sign panel to the existing wood fence or post with appropriate hardware.
- Remove excess fill, rock, and debris to finished surface grades level with existing elements and match surface treatment to surrounding area. Ensure that there are no holes or trip hazards and unsuitable excavation debris is removed and disposed off-site.
- Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.

Posts/Supports



2" x 2" Aluminum Post

- (non-painted)
- See details for length
 - Fastener holes shall be predrilled in posts.

2.5" x 2.5" 30" Stub



4" x 4" Treated Wood Post

- See details for length
- Fastener holes shall be predrilled in posts.
- For the purposes of this document, wood treatment means the wood is preserved with an EPA approved pesticide or fungicide. Treated wood shall be pressure treated. Wood for ground contact use shall be incised, and for above ground use it shall be non-incised.



6" x 6" Treated Wood Post

- See details for length
- Fastener holes shall be predrilled in posts.
- For the purposes of this document, wood treatment means the wood is preserved with an EPA approved pesticide or fungicide. Treated wood shall be pressure treated. Wood for ground contact use shall be incised, and for above ground use it shall be non-incised.



2" x 2" U-Channel (galvanized or aluminum)

- See details for length
- Fastener holes shall be predrilled in channel

Fasteners

- Shall be hot dipped galvanized or stainless, unless noted.



Black Acorn Nuts



Black Domed Screws



White Domed Screws



FastenMaster HeadLok Screws

(model # FMHLGM278-12)



Wall Anchor

Sign Maintenance Standards

The following are recommendations for repair and replacement to ensure the sign system continues to function the way in which it was designed.

Screws and bolts must be tightened periodically. Check for missing screws, nuts and bolts. Since these tend to get lost during maintenance procedures.

Damaged bolts and screws must be replaced immediately.

Review signs for structural wear or damage, i.e., rusting that threatens the structural integrity of the sign. Damaged signs that may present a hazard should be removed and replaced immediately.

The following conditions may shorten the lifespan, damage or destroy a sign or its components. Consider these factors when placing a sign. If it is not possible to avoid these factors, consider materials more suitable to withstand their effects.

Heat

Heat can cause coatings to discolor, fade, blister and burn off.

Moisture

This problem may include exposure to steam, humidity, condensation or immersion in water. Moisture can warp, corrode and dissolve sign components and coatings.

Impact

Coatings and sign components may chip, scratch or break if impacted by debris and larger objects, such as mowers, sports equipment, cars, etc.

Sun Damage

Certain materials last longer than others under prolonged exposure to the sun's ultraviolet radiation. Consider material application for signs under constant, direct sunlight.

Bonding metal to metal with adhesive

Certain sign construction procedures in the manual call for attaching two or more metal surfaces with adhesive. The following list of adhesives may be suitable for the job:

LORD 406
3M 08115 panel bonding adhesive
JB Weld
OZ Welder Professional Adhesive 730657

Test the above adhesives prior to long term, systemic use.

Aluminum & Painted Aluminum

Aluminum surfaces are easily cleaned using mild soaps, detergents or solvents applied to the surface with a soft cloth or sponge. For more stubborn stains, solvents such as Bestine or acetone may be applied to the surface with a soft cloth. Quickly wipe the stained area, allowing the solvent on the sign to fully evaporate before wiping again. However, extensive use of acetone may cause painted surfaces to fade and lose their luster. Observe all state local guidelines for using such substances.

Acrylic Letters and Vinyl Signs

Letters and vinyl can be cleaned with a soft cloth and a commercial glass cleaner. Do not use cloths containing grit, abrasive particles or scouring compounds to clean plastic, as they will scratch and damage the sign surface.

AVOID USING ACETONE OR OTHER HARSH CHEMICALS ON VINYL.

Sign Removal, Replacement & Recycling

The modular nature of the sign system allows for component parts to be replaced as they are updated or if they become damaged. Instead of replacing an entire sign, individual panels can be replaced.

Save and refurbish any materials such as hardware, posts or panels that are in acceptable condition. Acceptable condition means objects are free of corrosion, dents, bends, fading, abrasive damage, etc.

Entire signs may be replaced if they become damaged or vandalized.

Do not leave remnants of the sign's footers/foundation or posts. Remove all components of the sign and return the landscape to its previous condition. Fill and grade any holes left in the landscape after a sign and its footers/foundation have been removed.

Most of the sign components are aluminum or steel and can be sent to a scrap yard instead of a landfill.